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MOBILITY AND TRANSPORTATION ANALYSIS IN SUPPORT OF THE
LIGHT ATTACK BATTALION (U) ARMY MATERIEL SYSTEMS ANALYSIS
ACTIVITY ABERDEEN PROVING GROU. C R DIETZ ET AL.

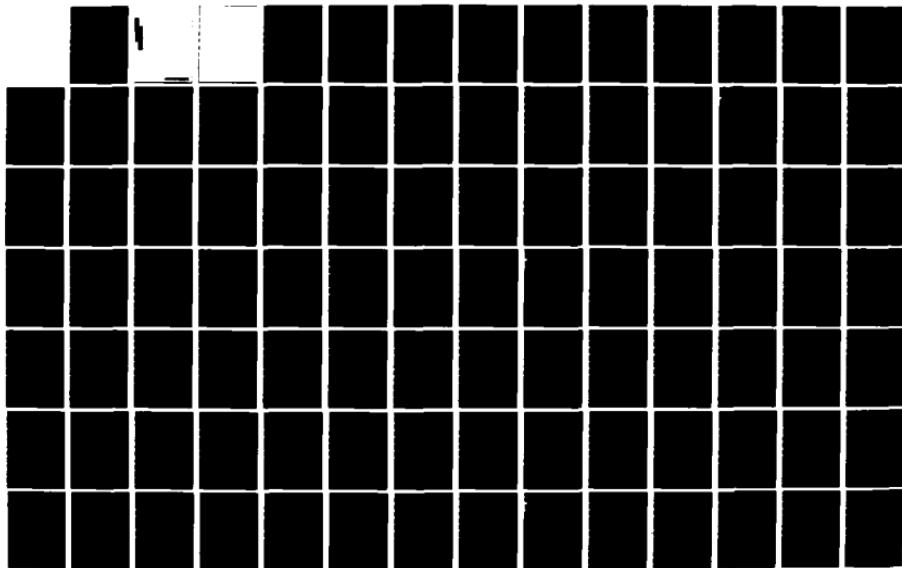
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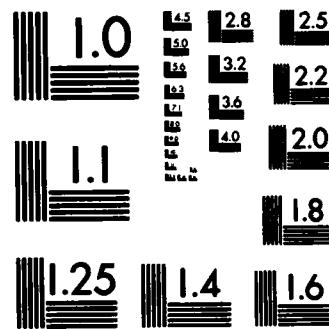
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) A mobility analysis of the 12 vehicles which are used in the light attack battalion (LAB) was made in support of a study being conducted by the US Army Infantry School. The Army Mobility Model was used to exercise the vehicles in Mid-East and European scenarios which included operation on primary and secondary roads as well as on trails and cross country. Runs were made on dry, wet and snow covered surfaces to obtain data on maximum attainable speeds under each condition. Additional analyses were conducted to determine probability of being hit while crossing typical gaps and to examine logistic requirements of moving the LAB from point to point.		

ACKNOWLEDGEMENT

The US Army Material Systems Analysis Activity (AMSA) recognizes
the following individual for contributing to this report:

PEER REVIEWER: Mr. David Jenkins

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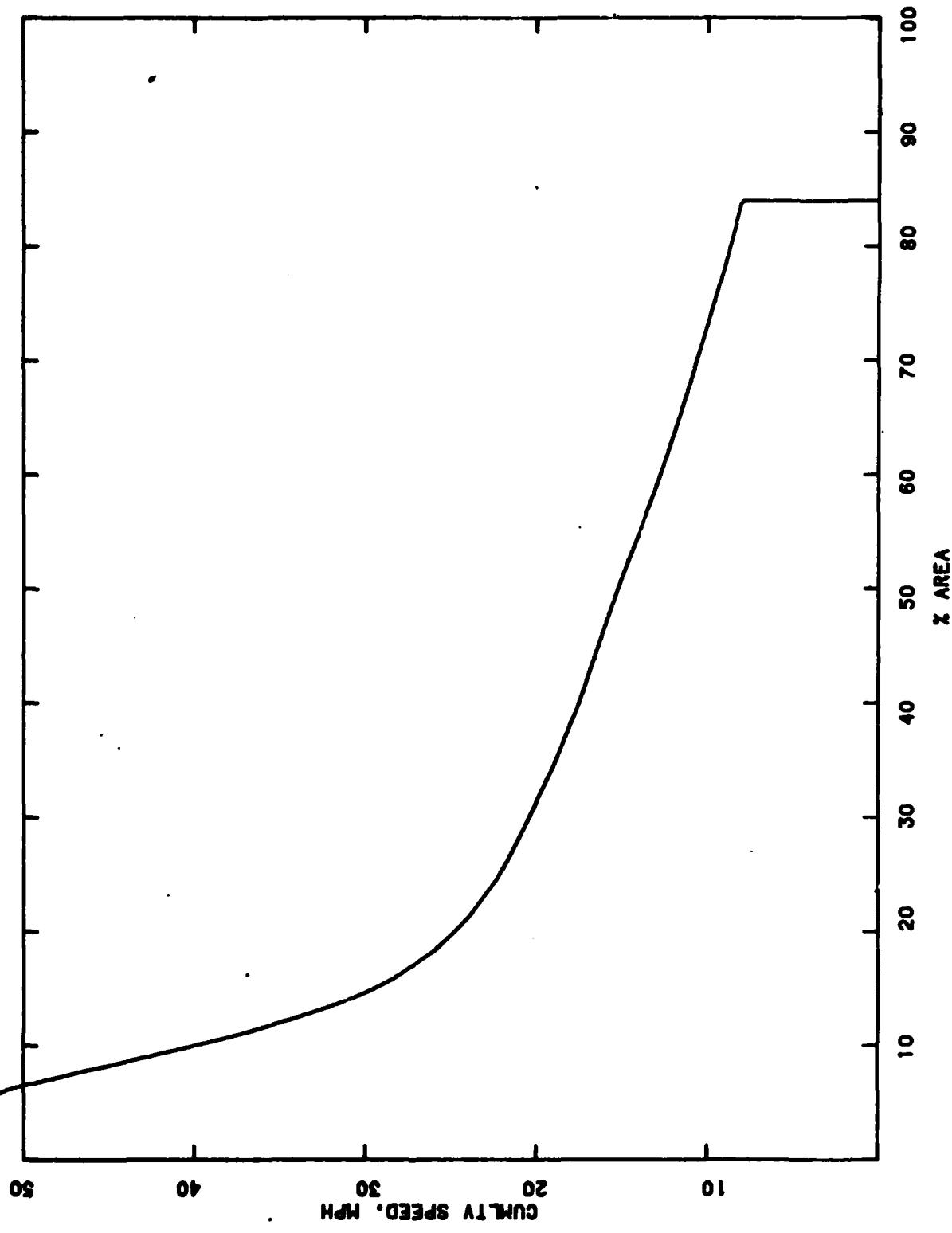
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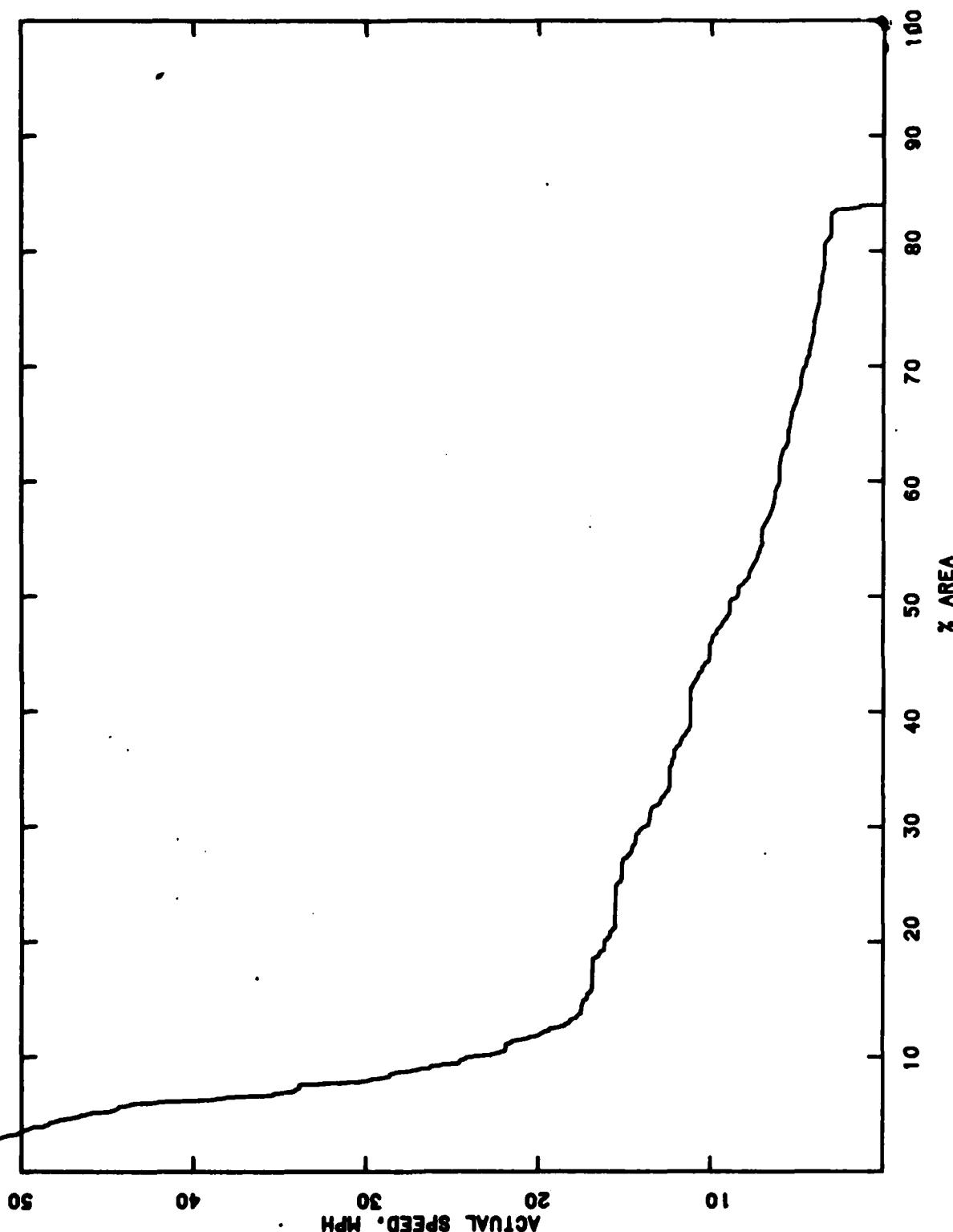
1. INTRODUCTION.

This volume contains the speed profiles, acceleration profiles and the no-go and speed limiting factors that were generated during the LAB study. Because of the large amount of material involved, it was decided to present the above items as a separate volume for ease of handling. However, these data form an integral part of the LAB study and present very detailed information that could not be conveniently included in the main body of the report.

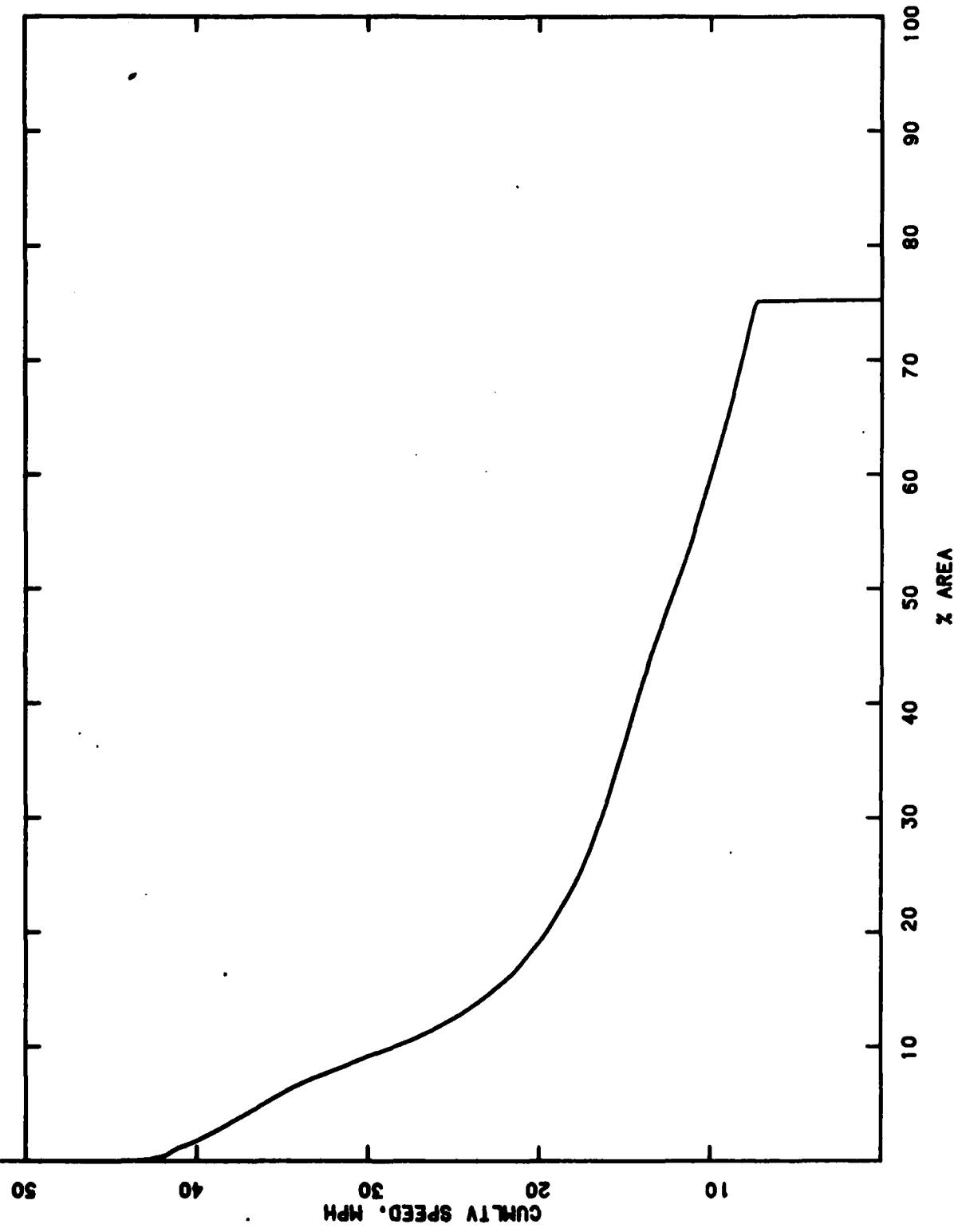
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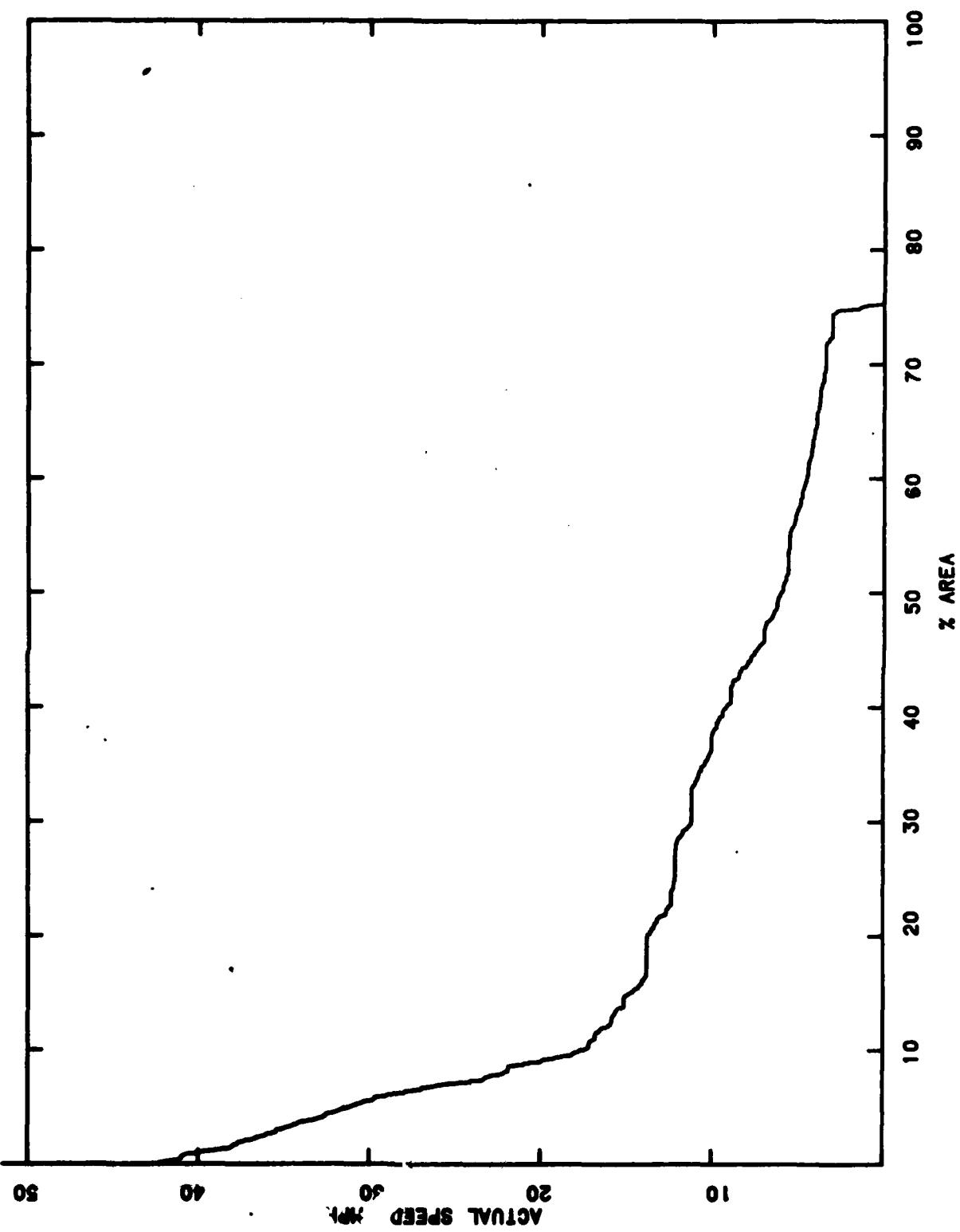
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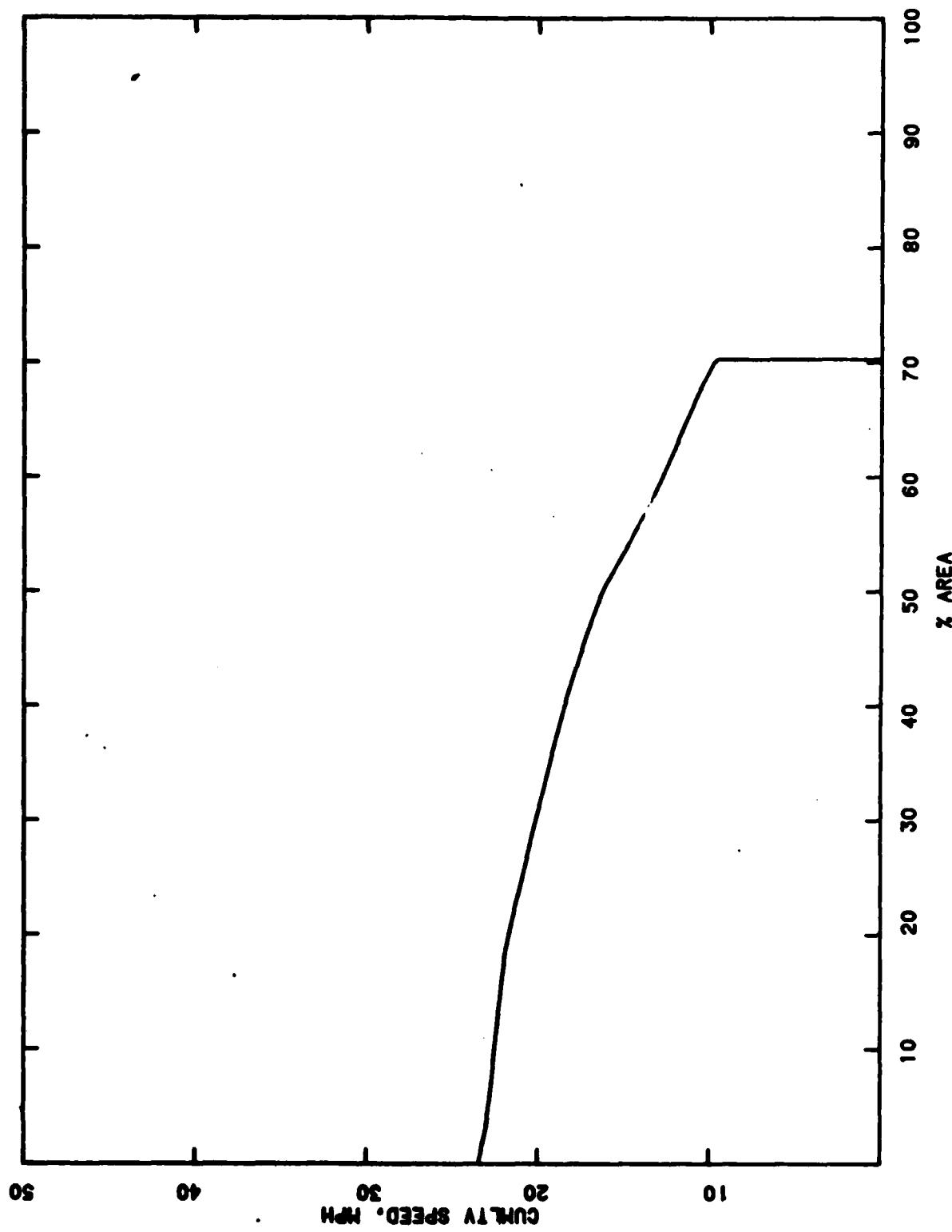
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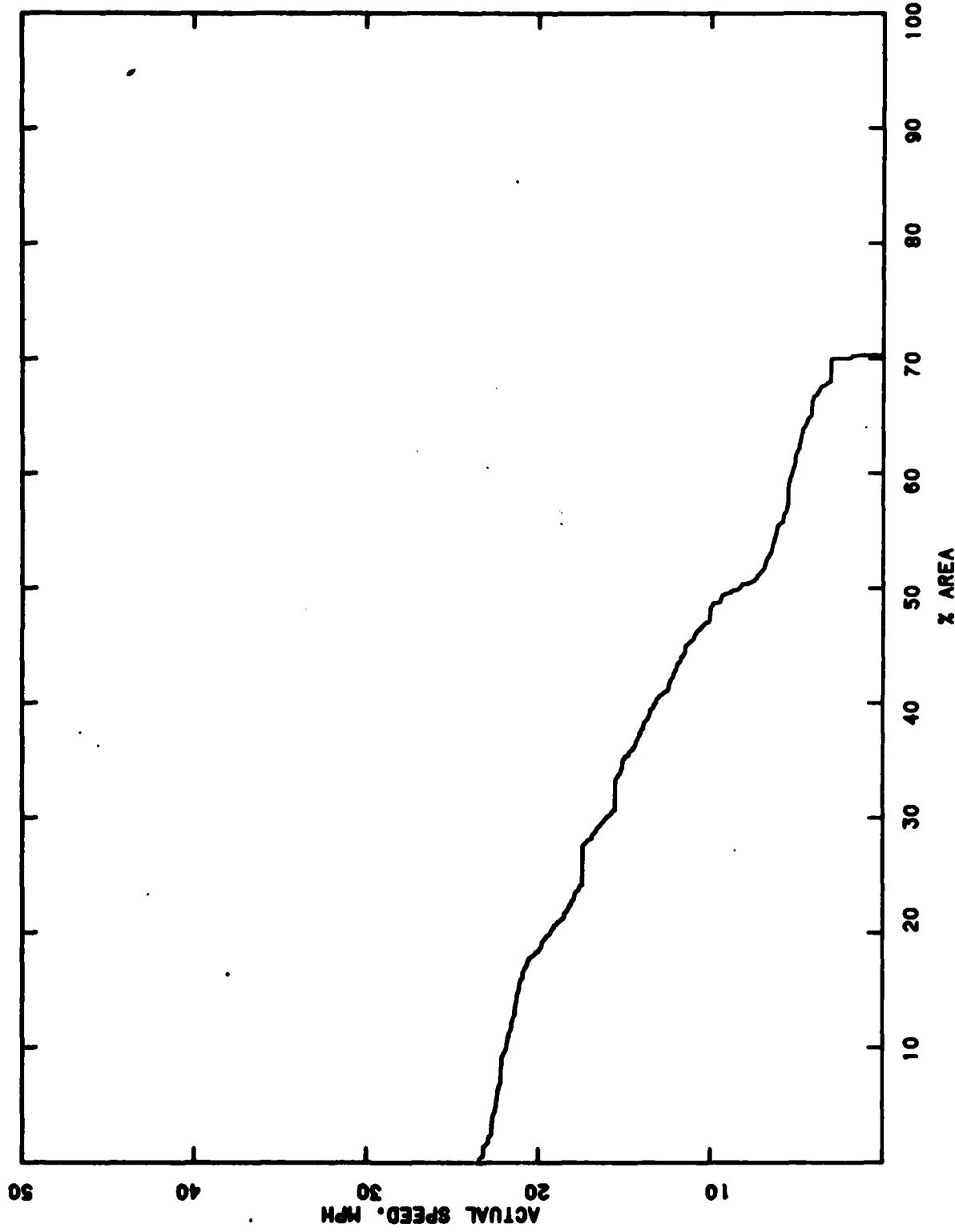
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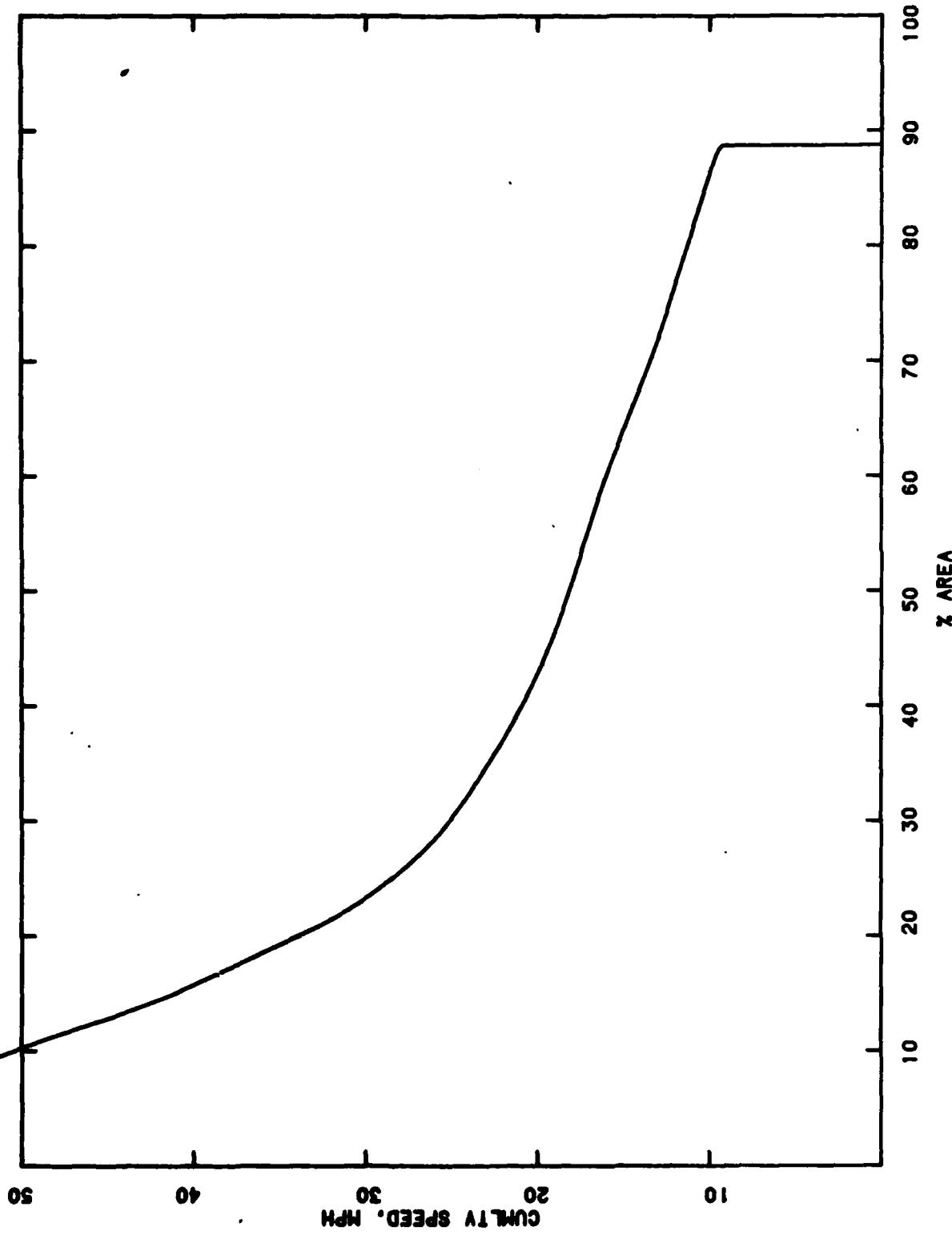
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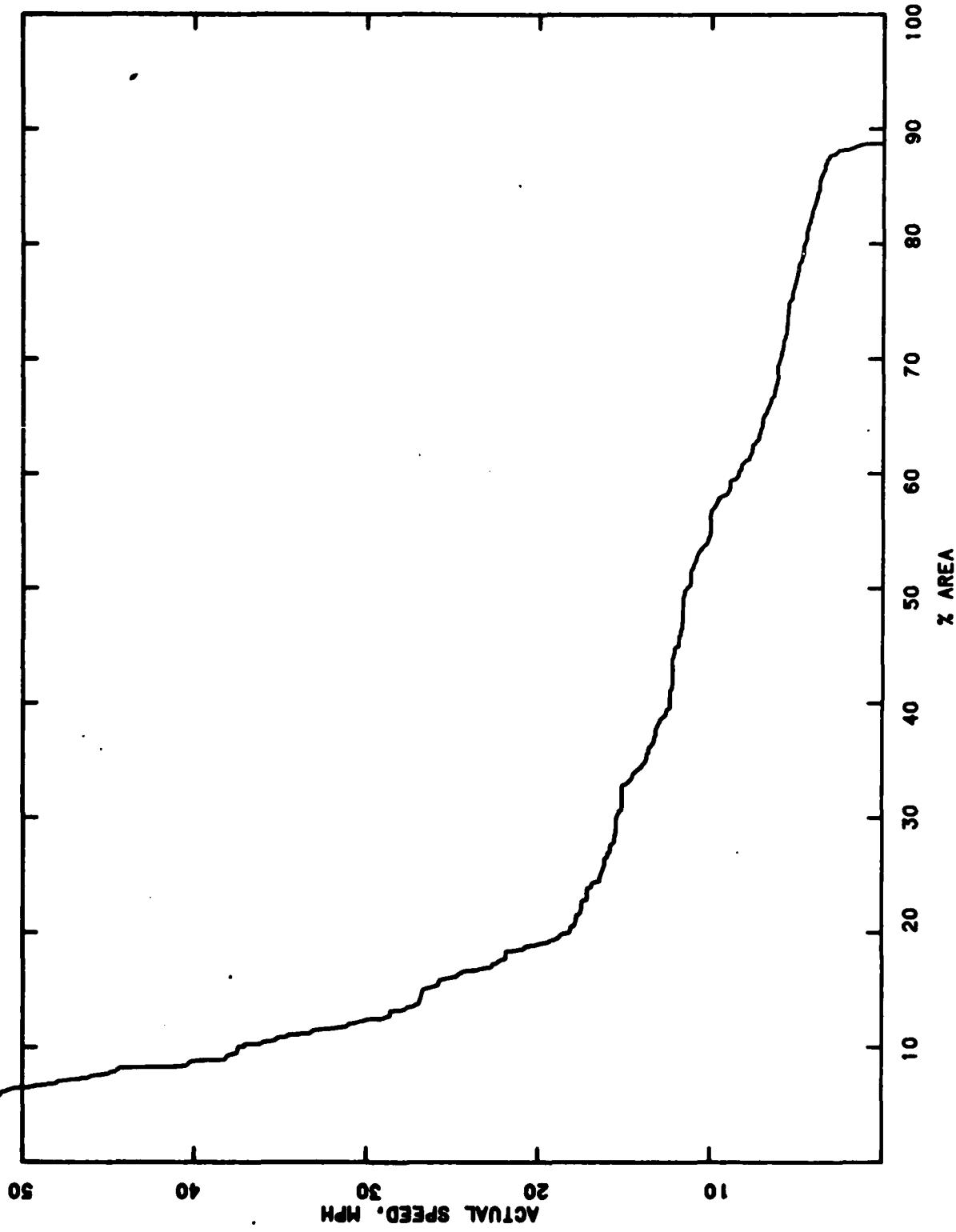
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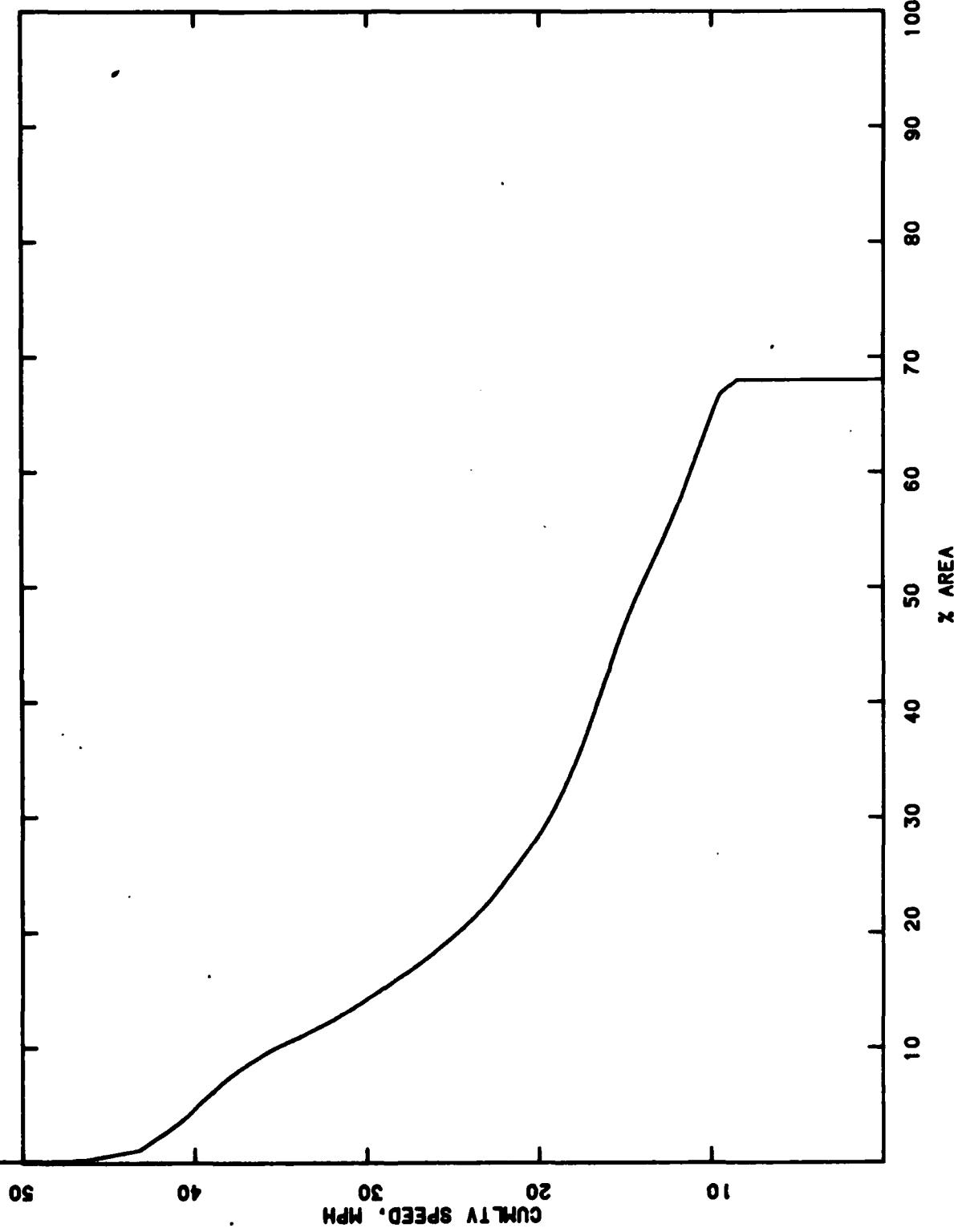
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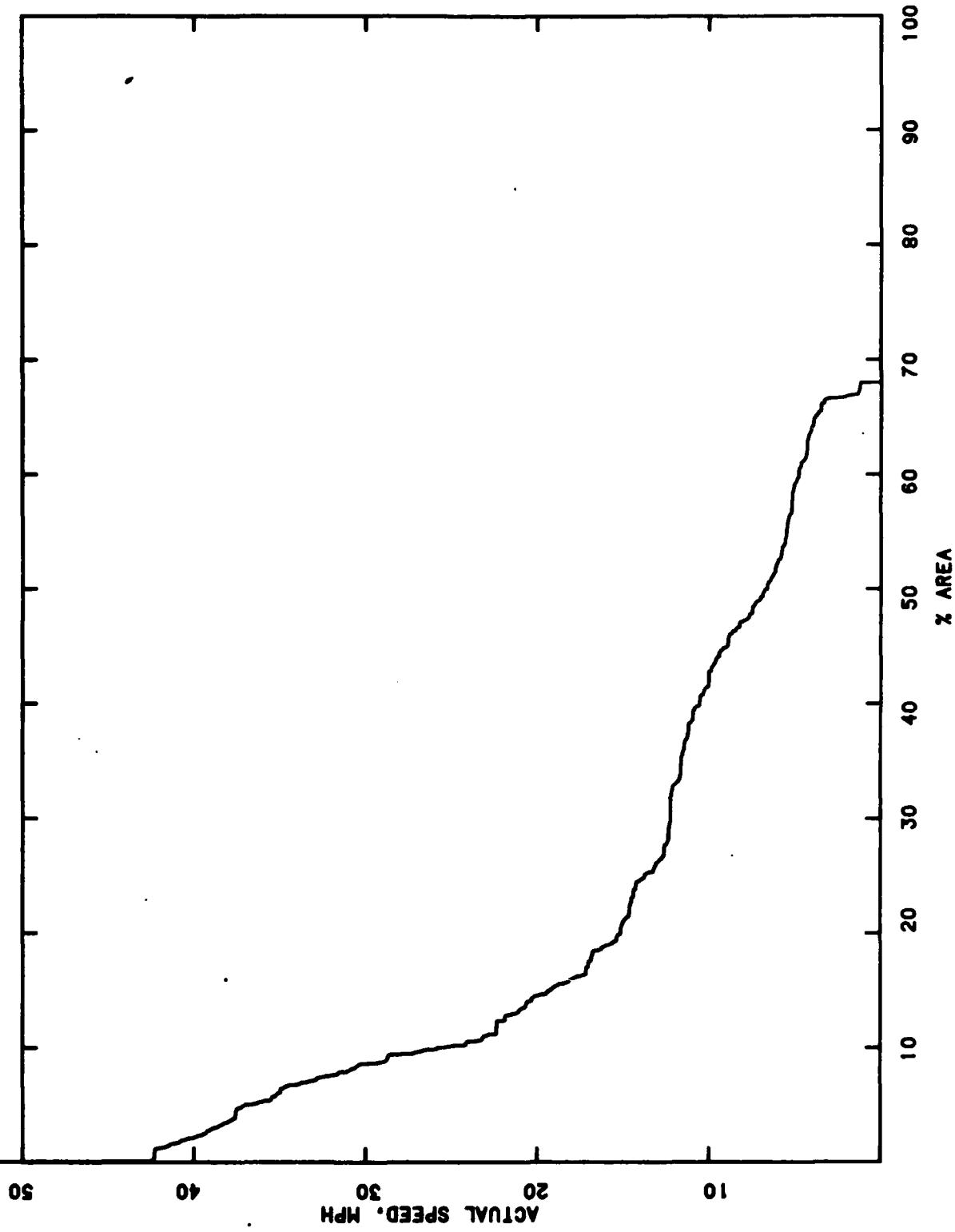
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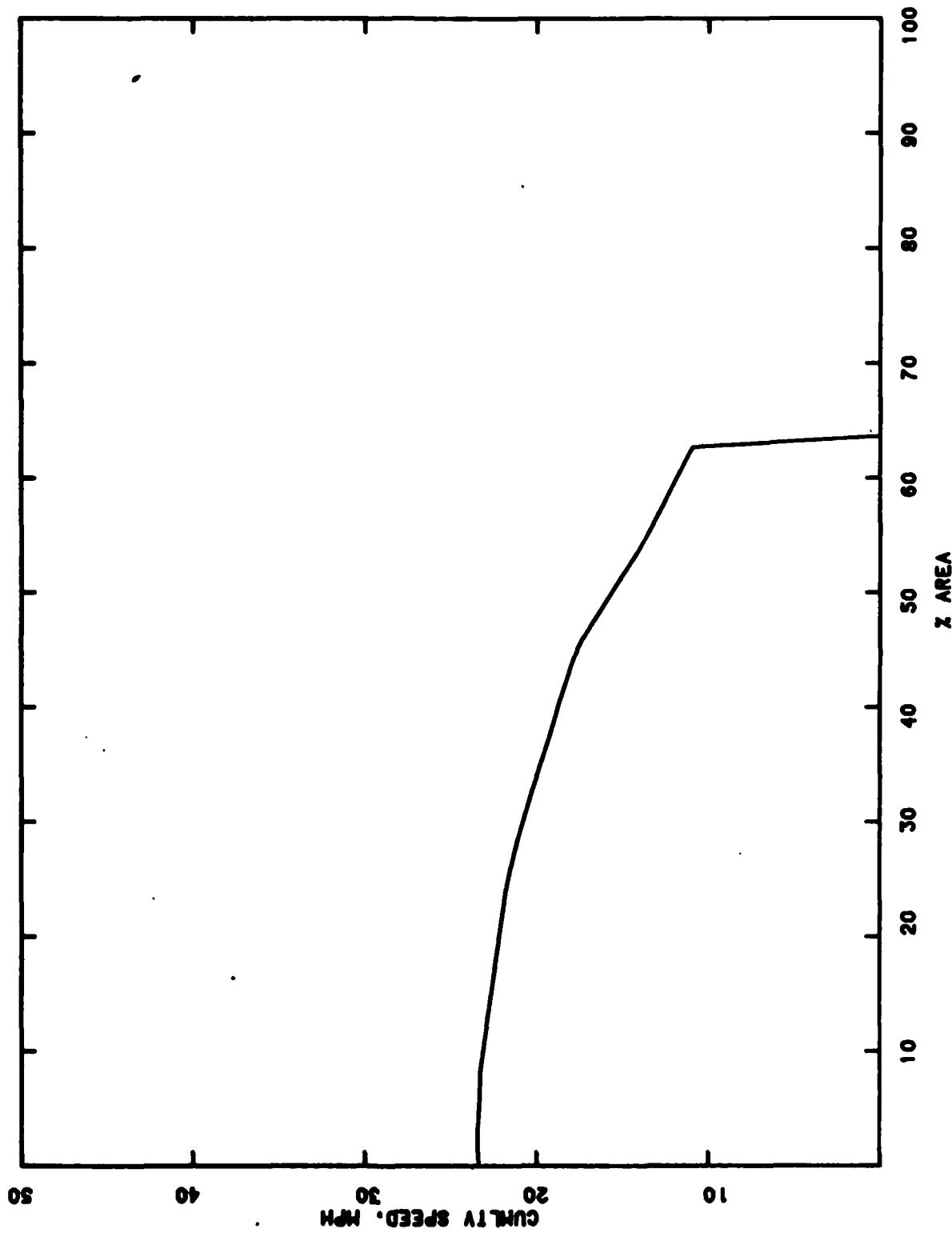
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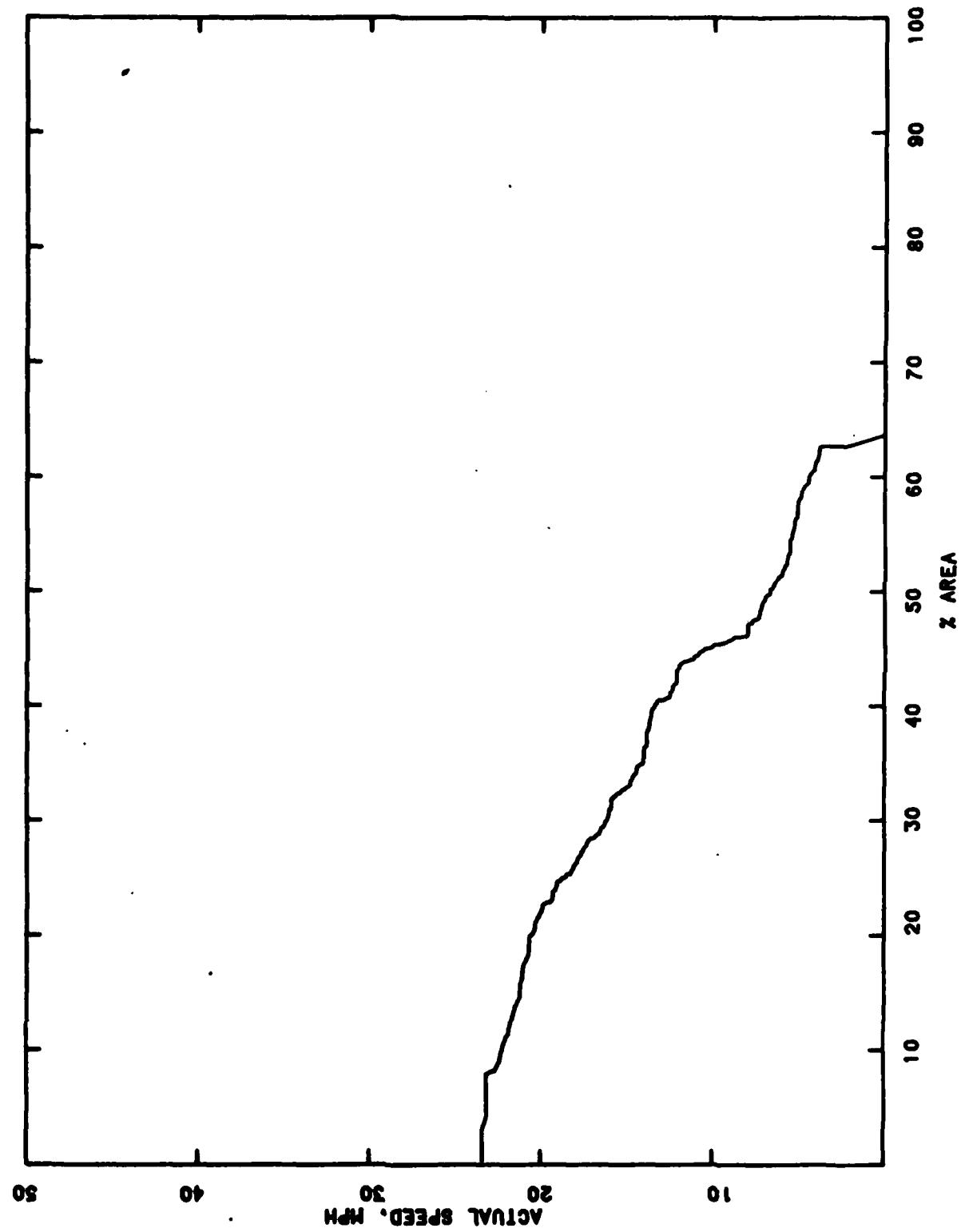
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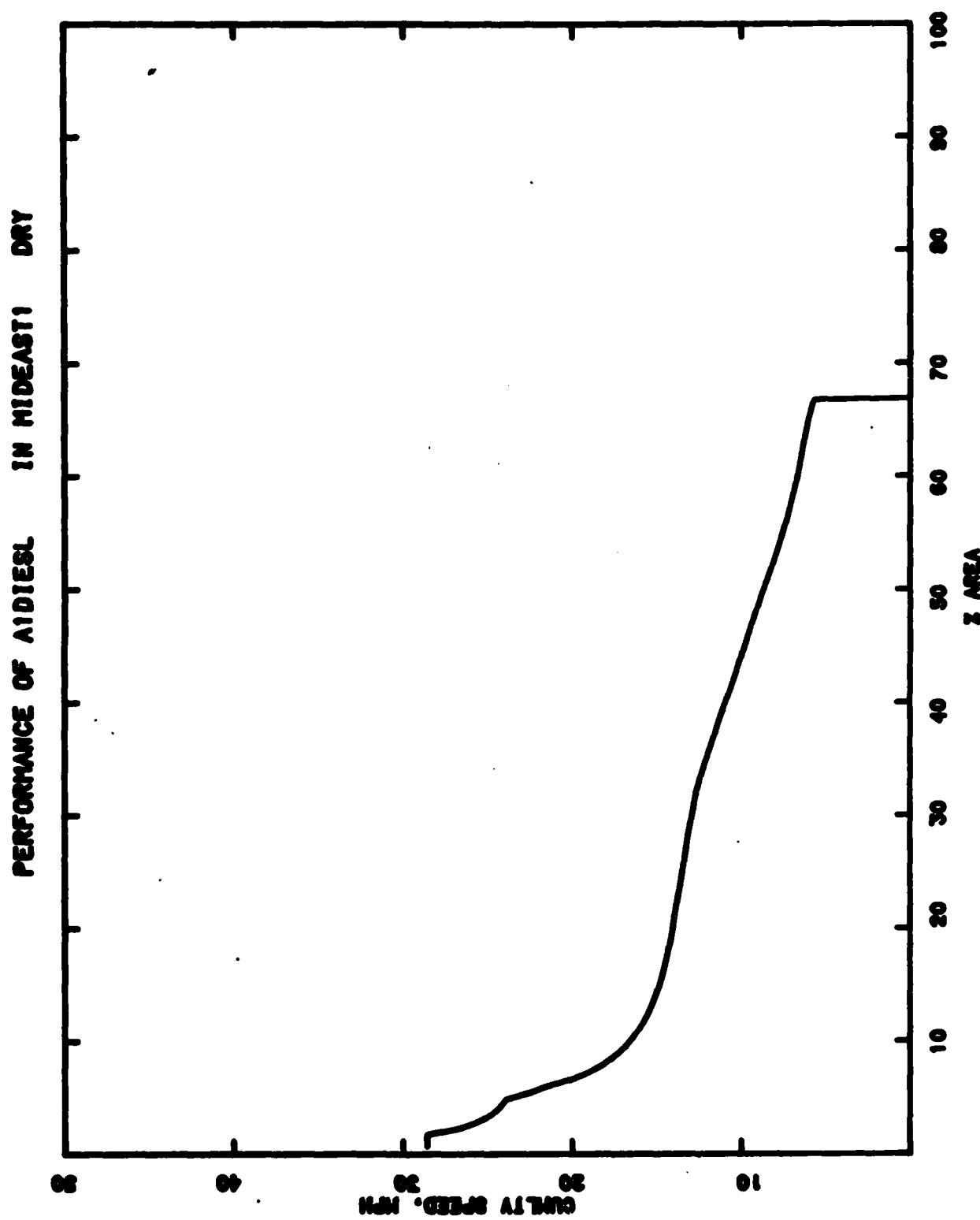


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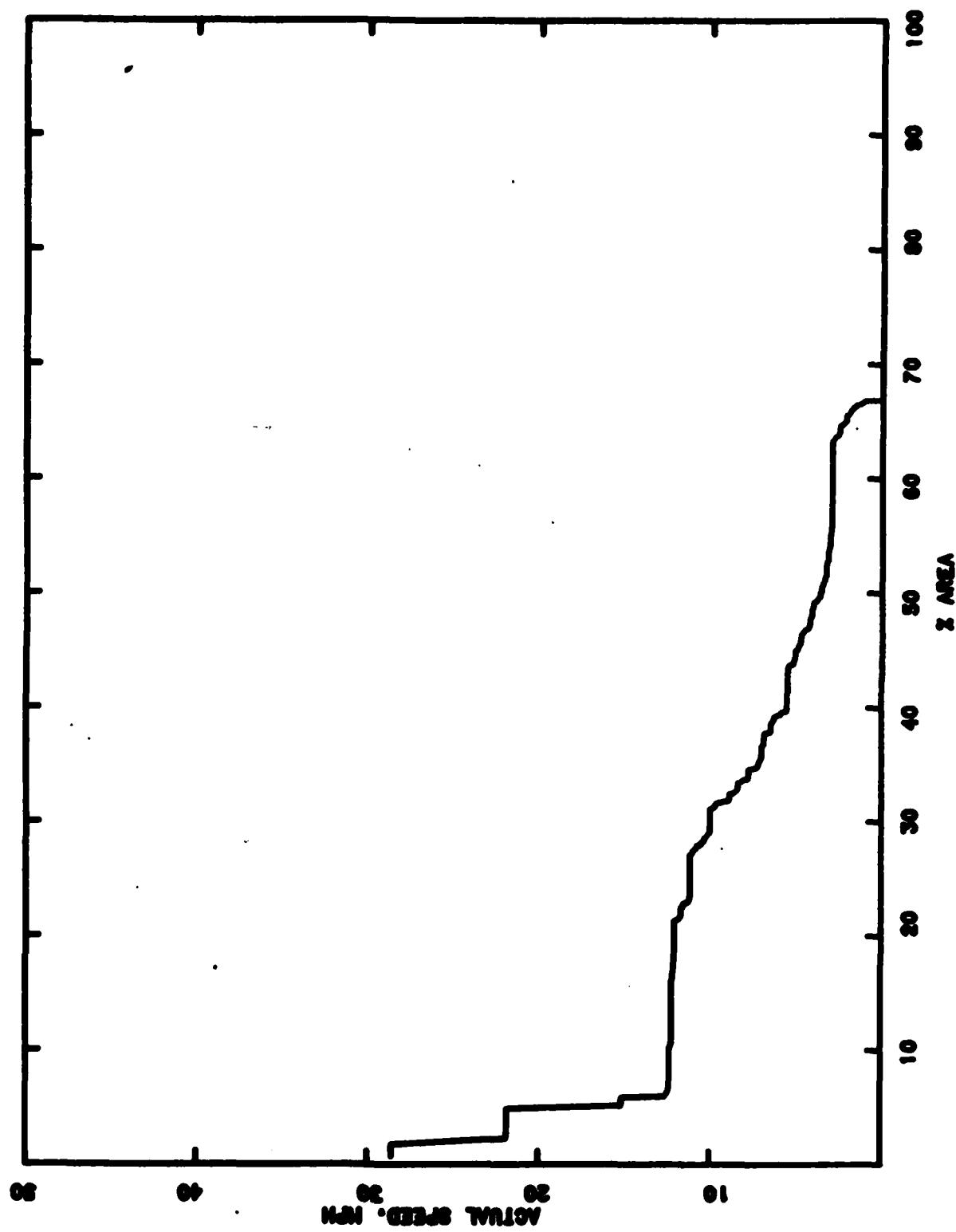


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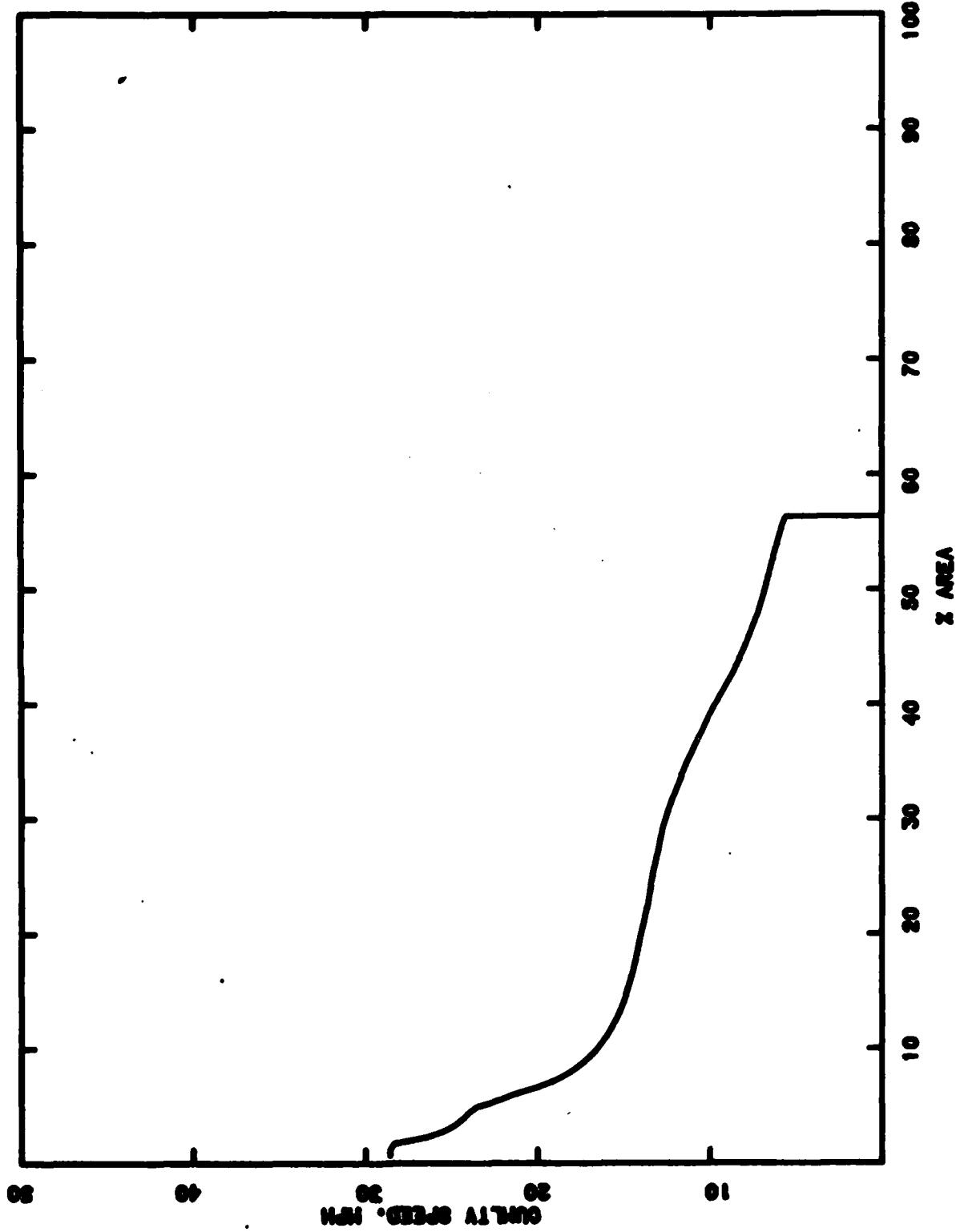


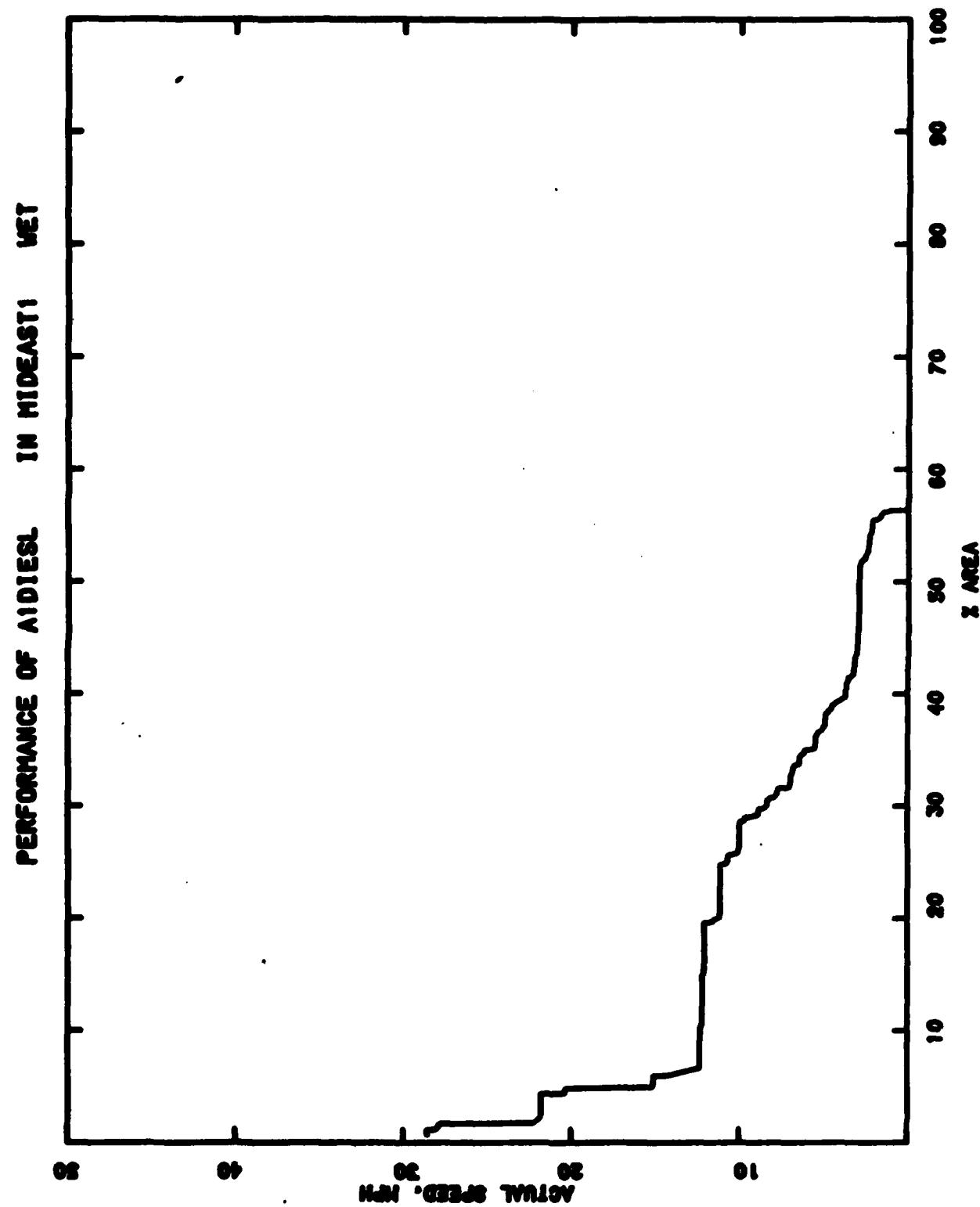


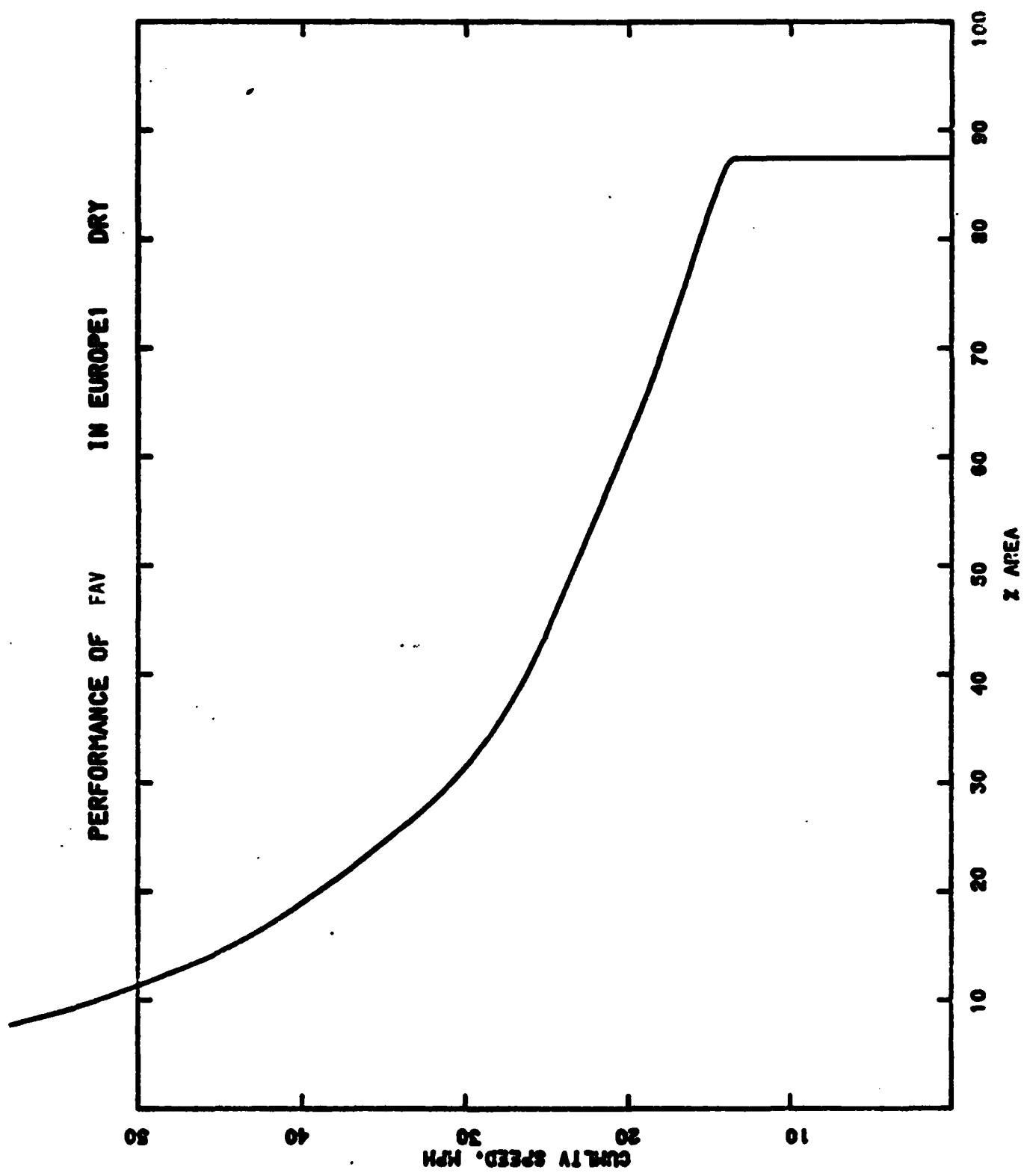
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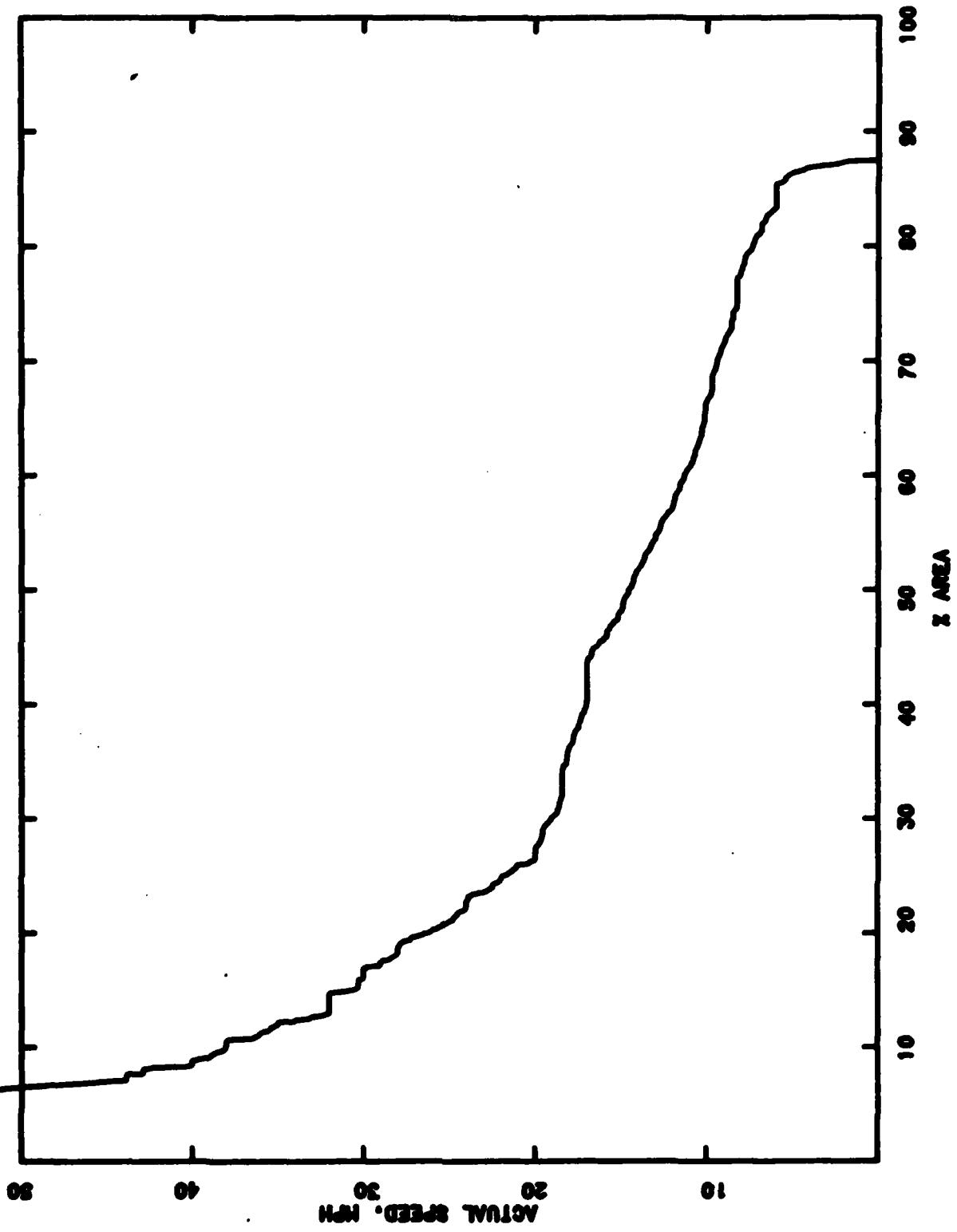
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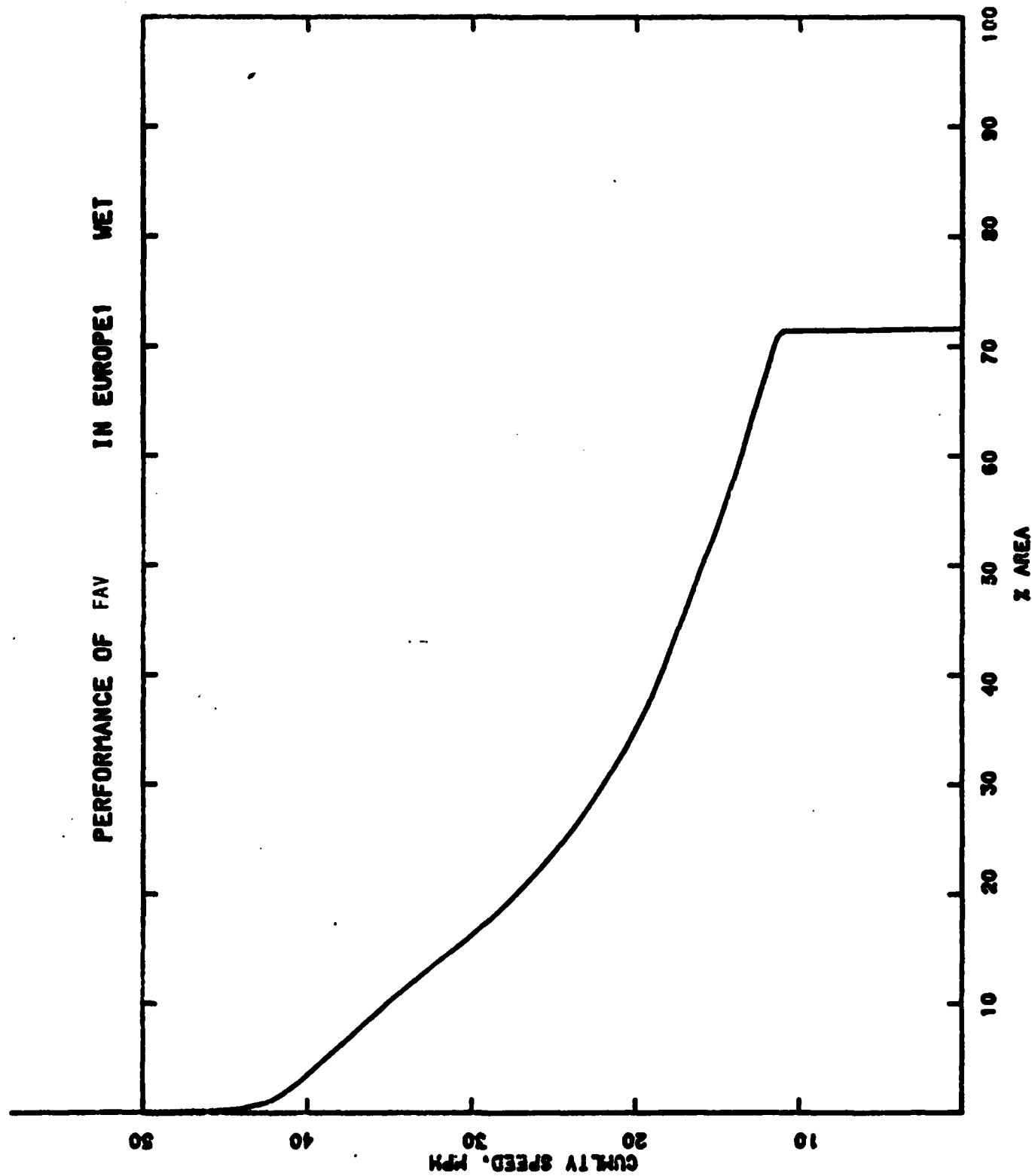




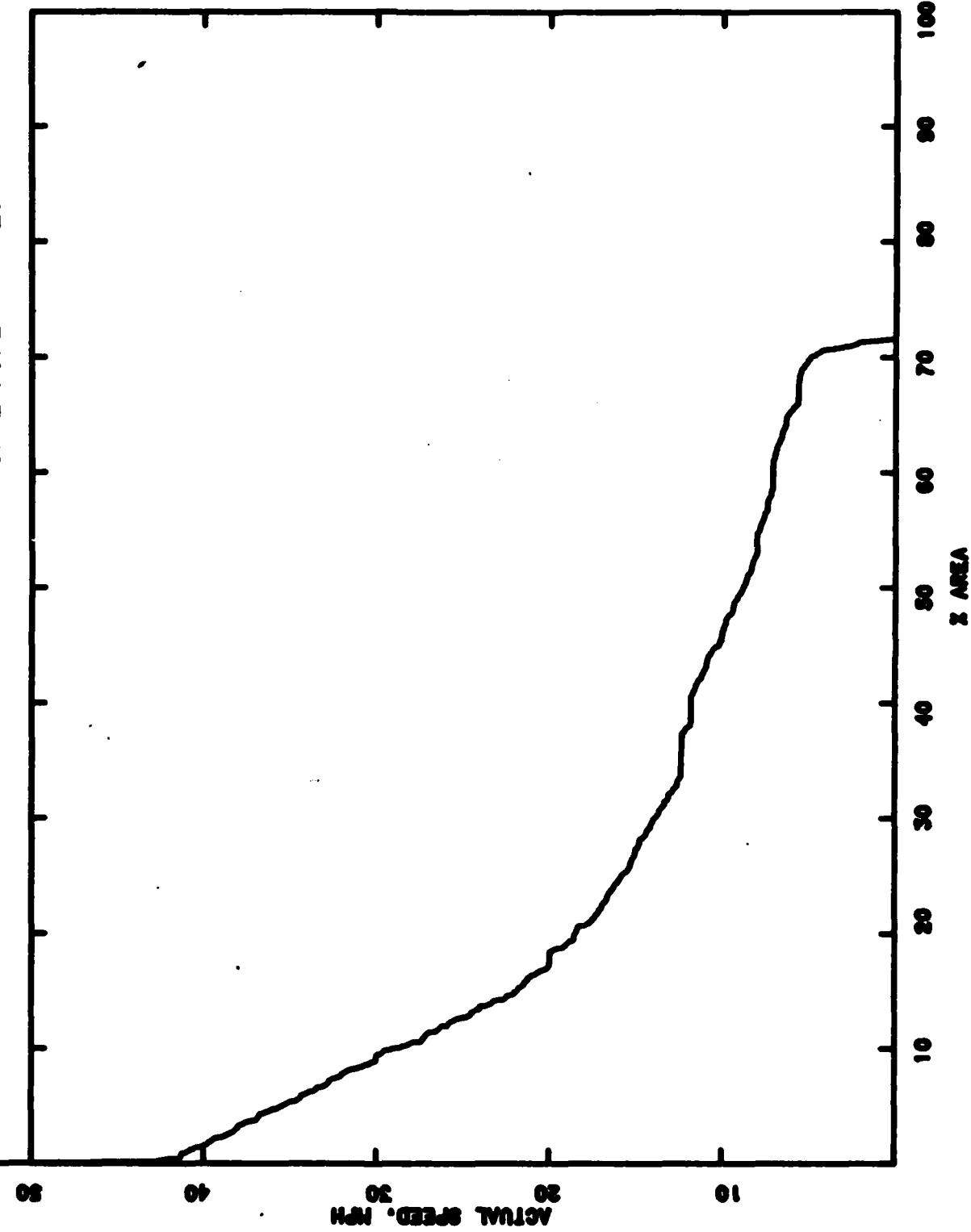


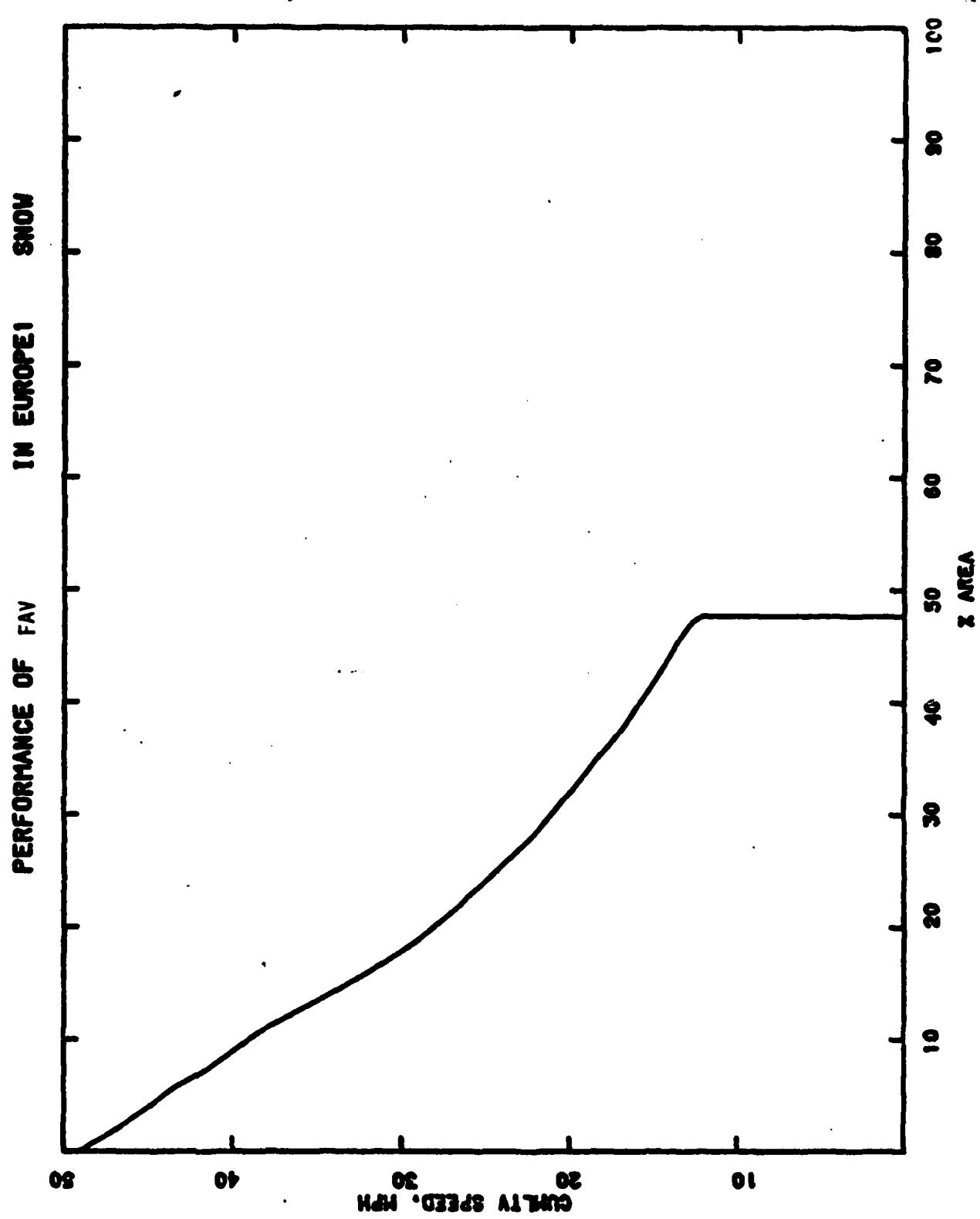
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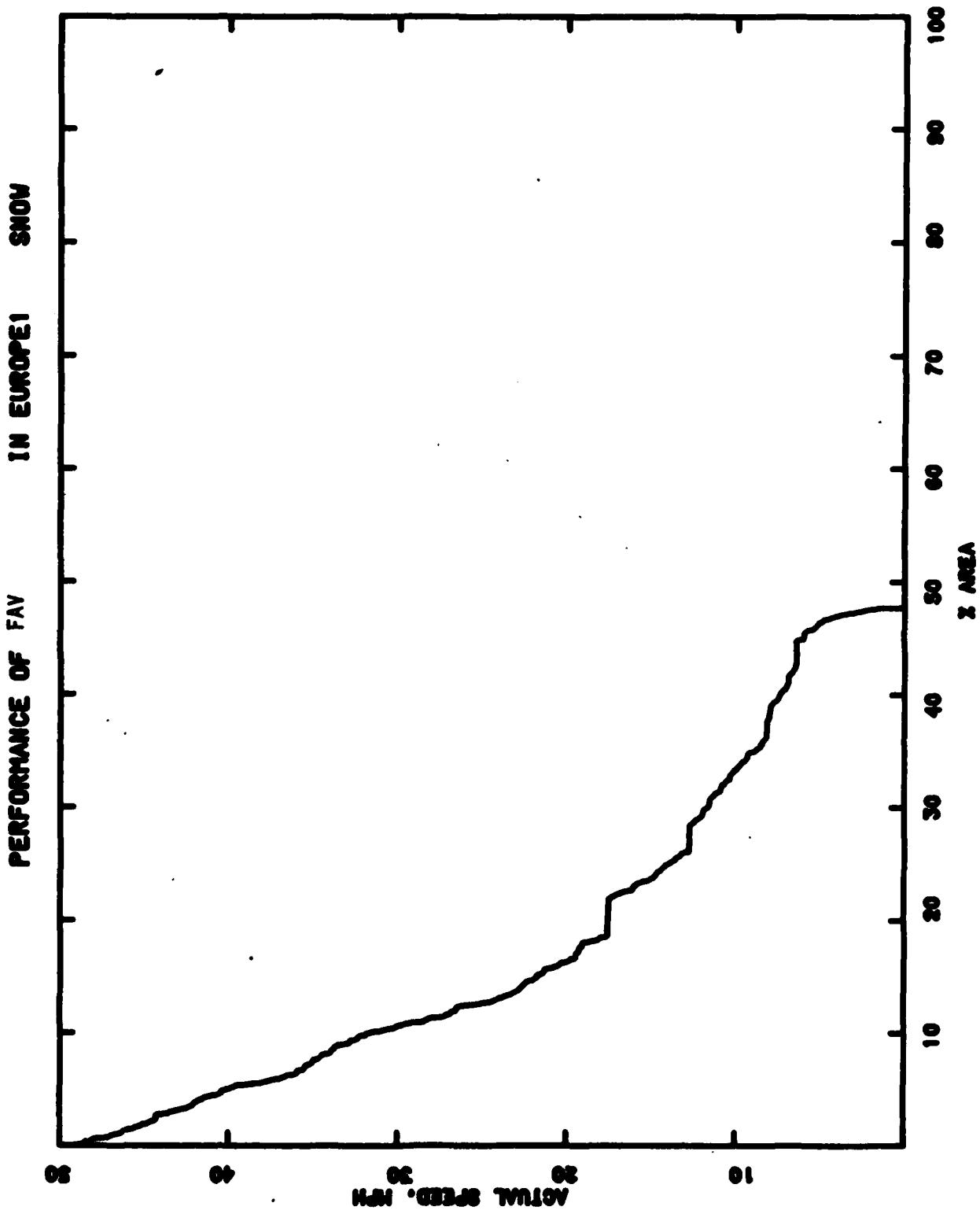


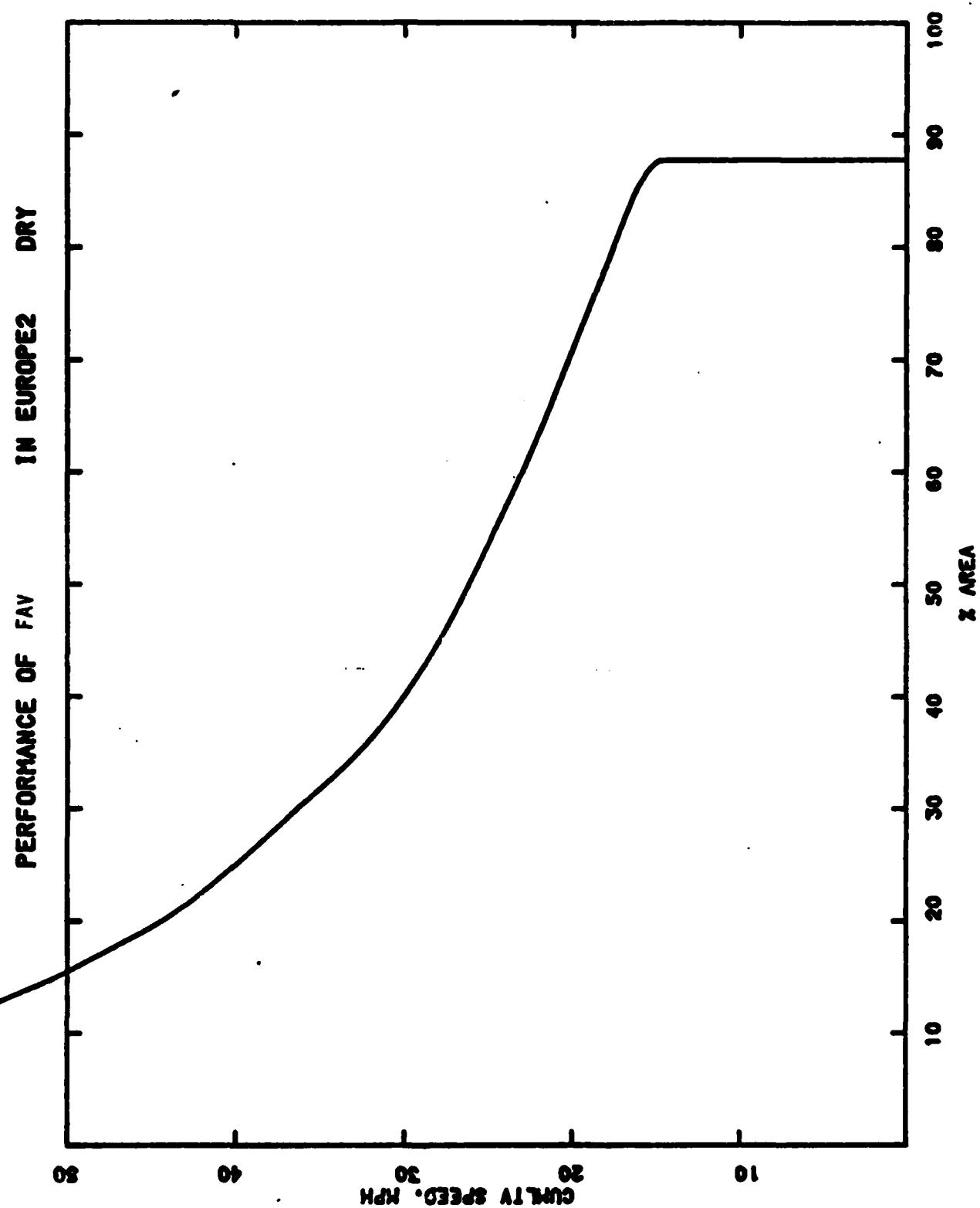


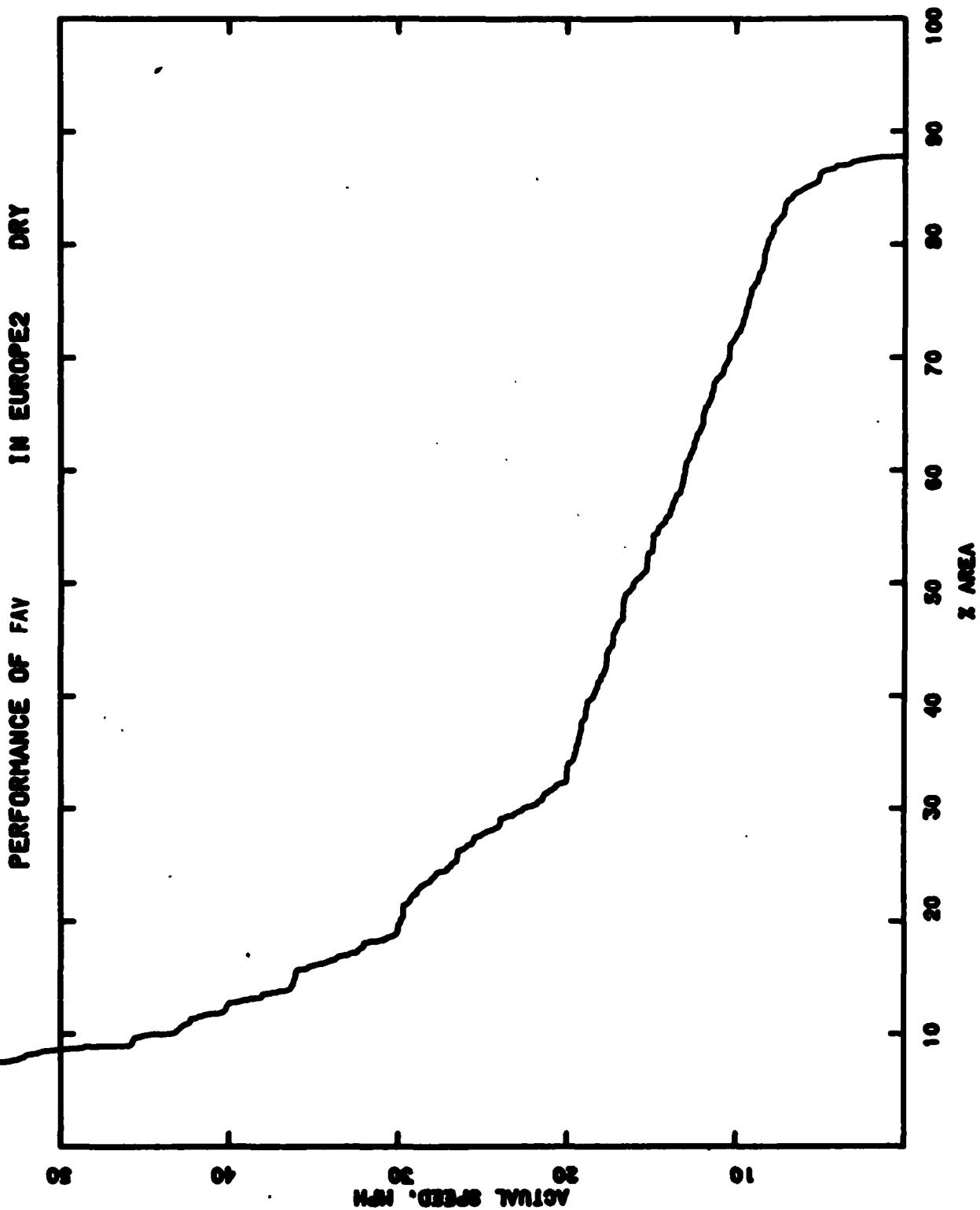
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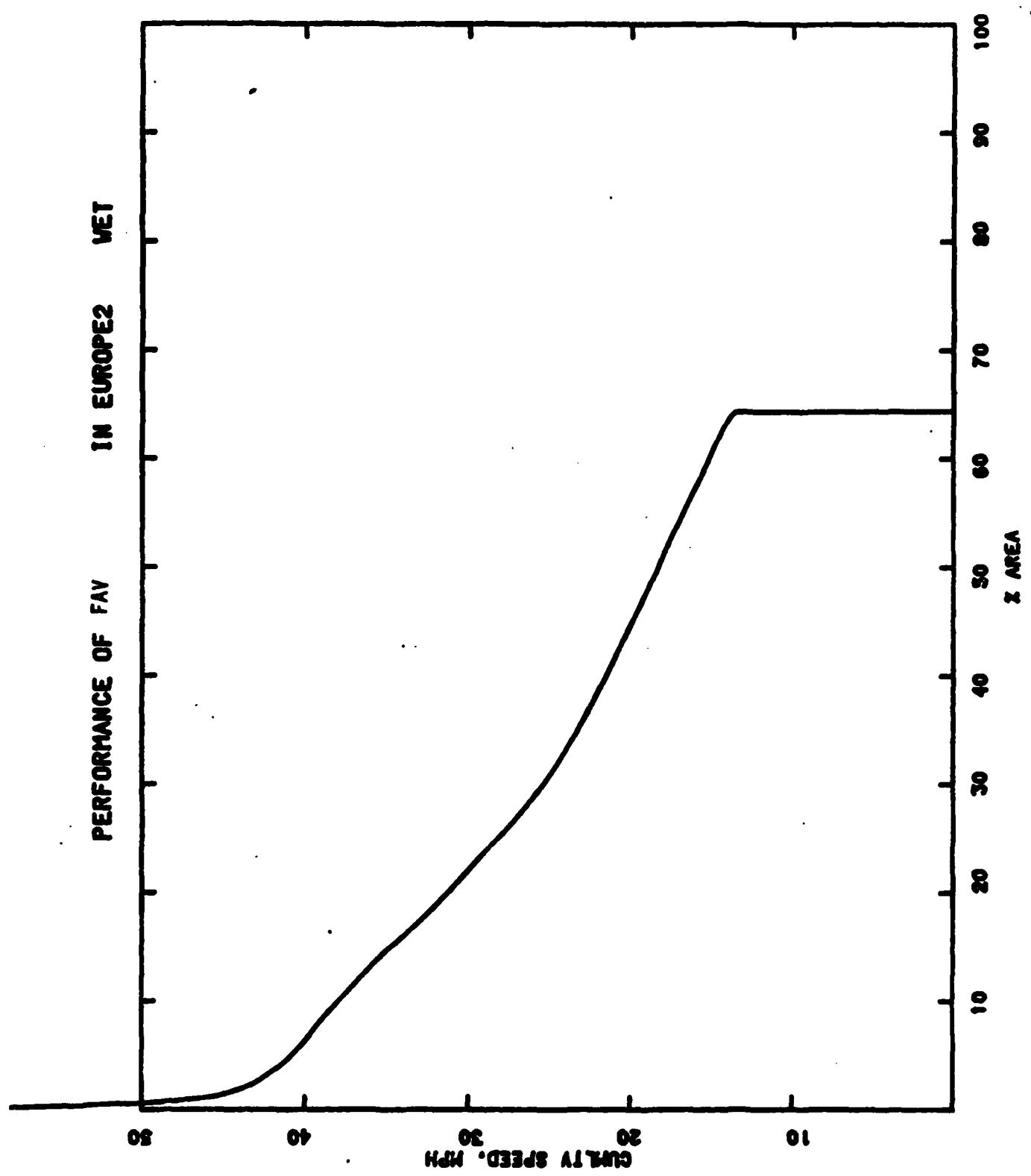


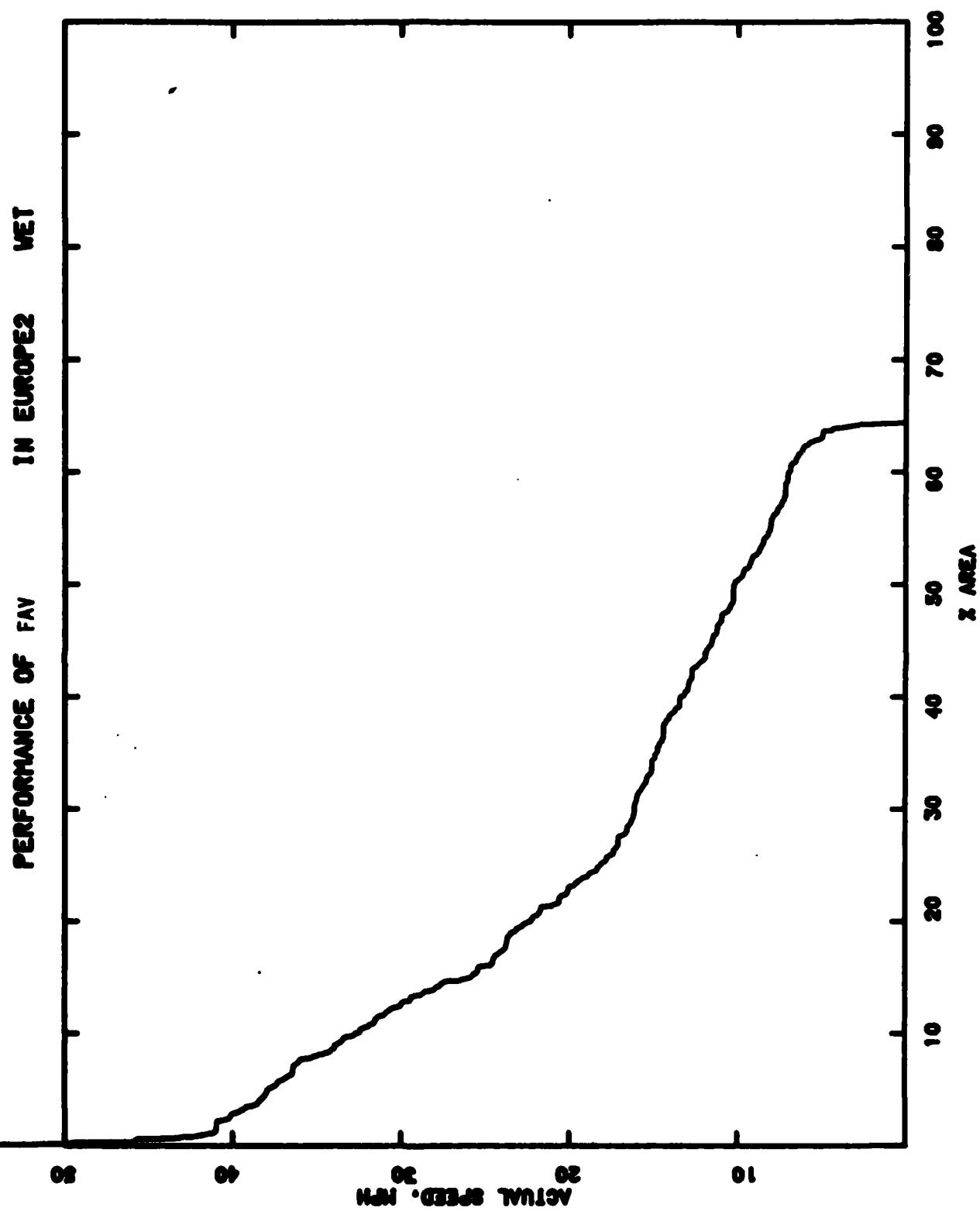


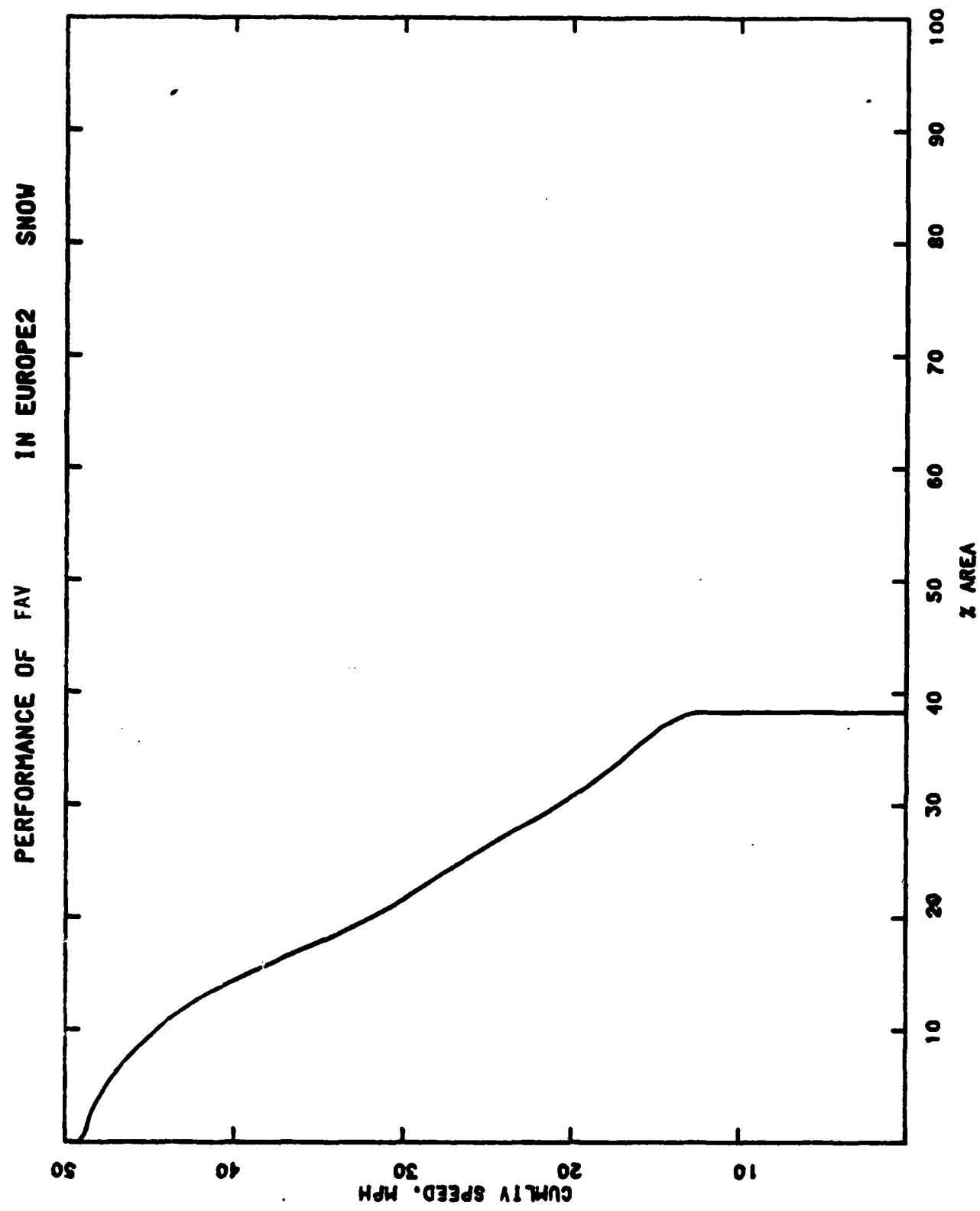


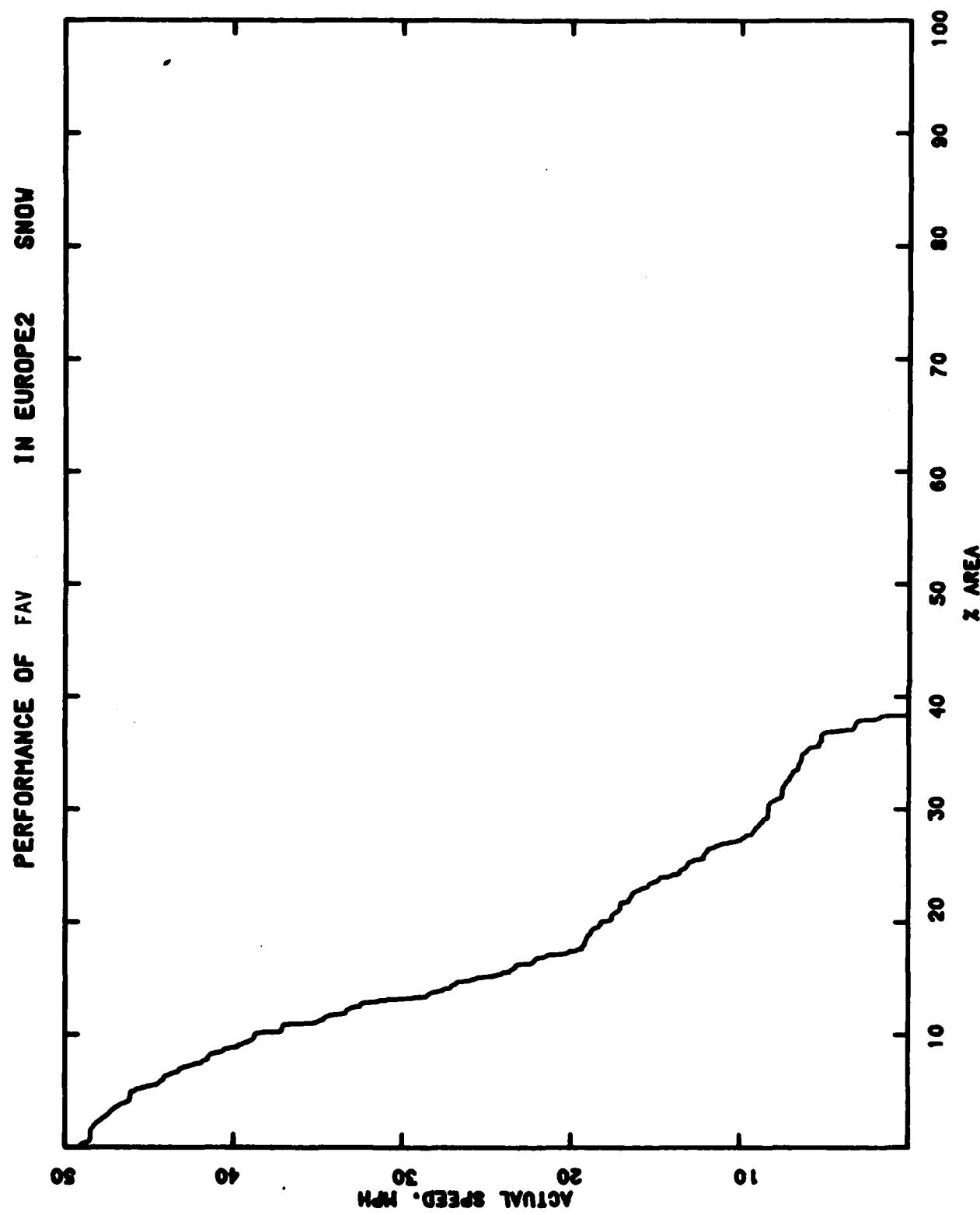


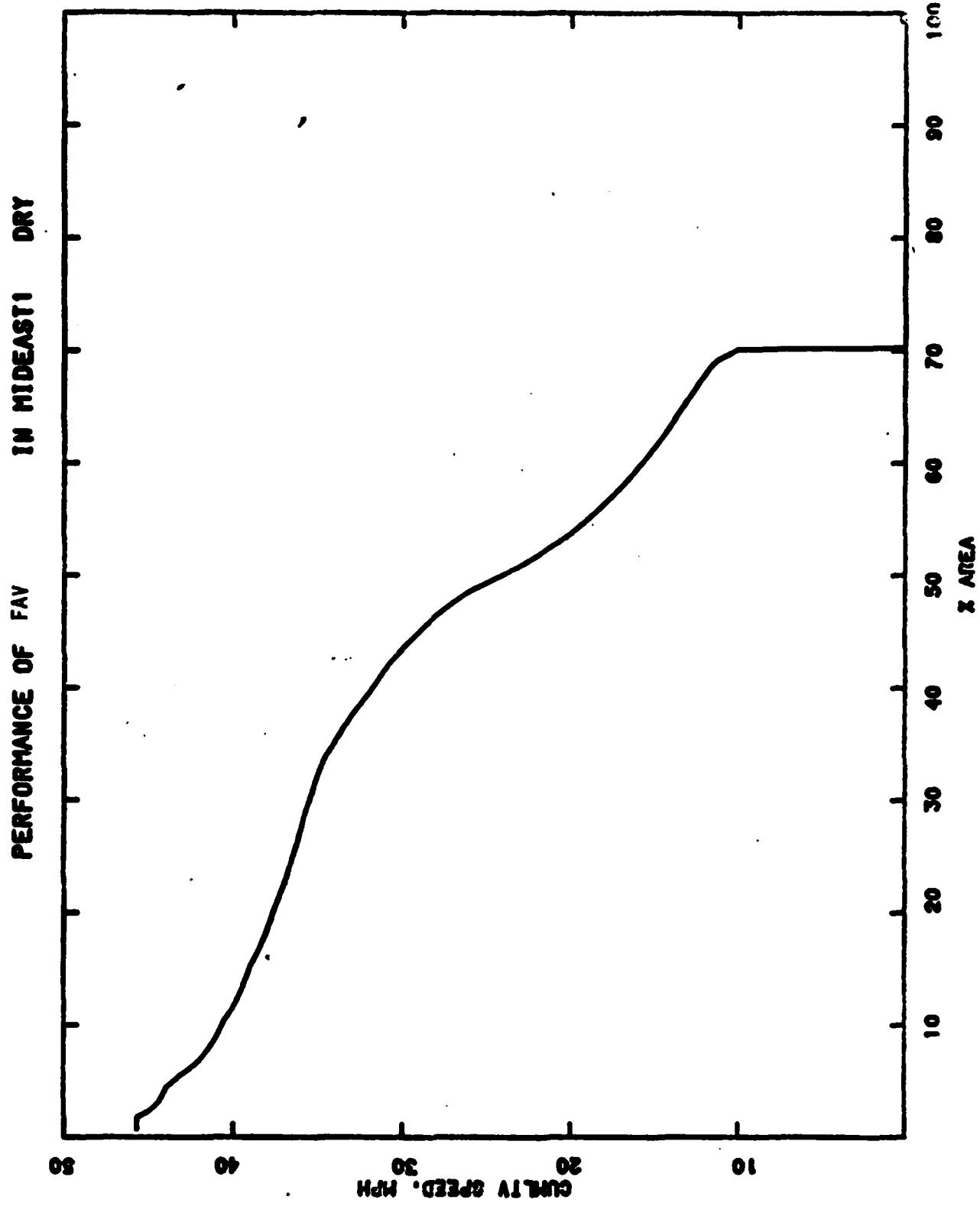


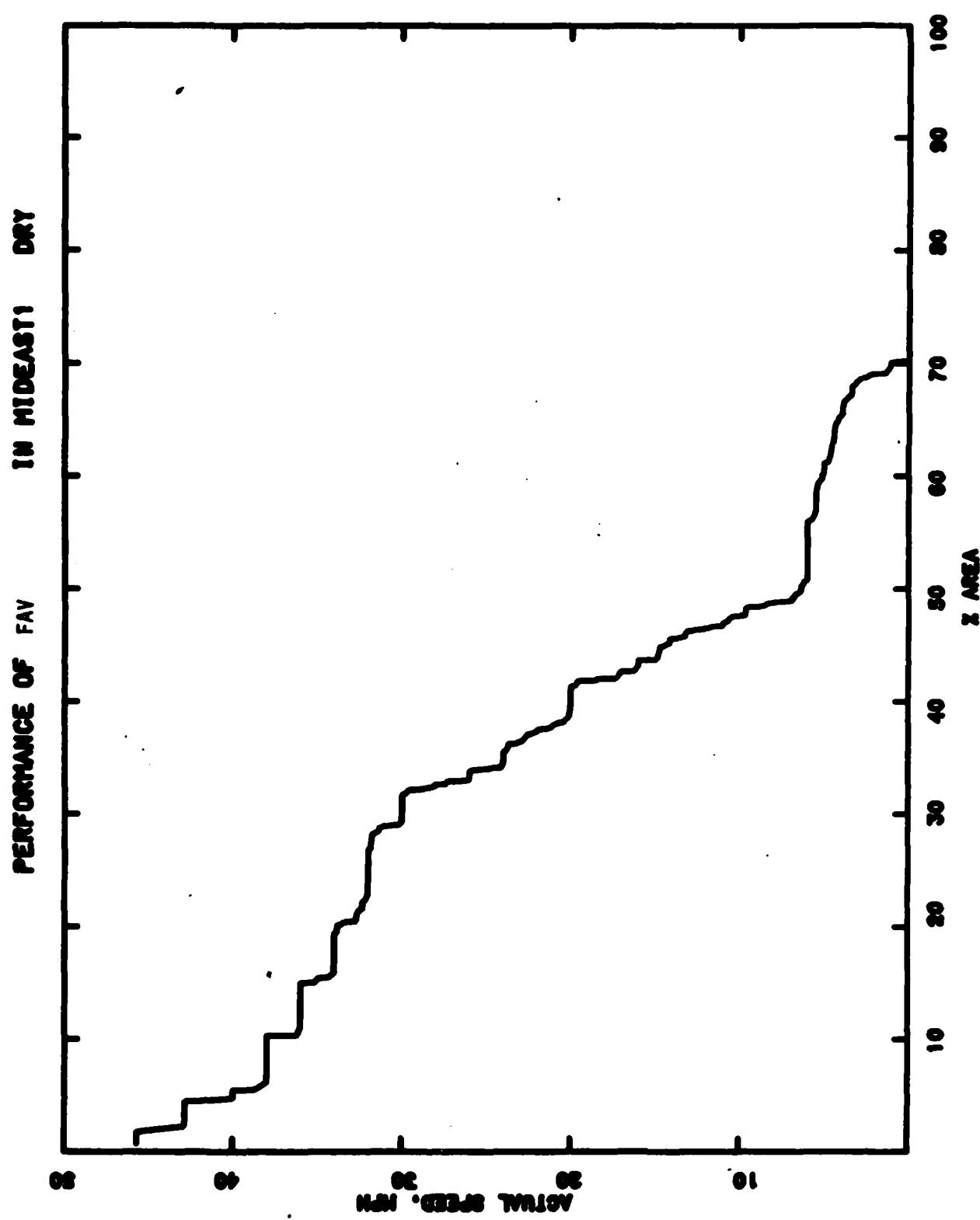


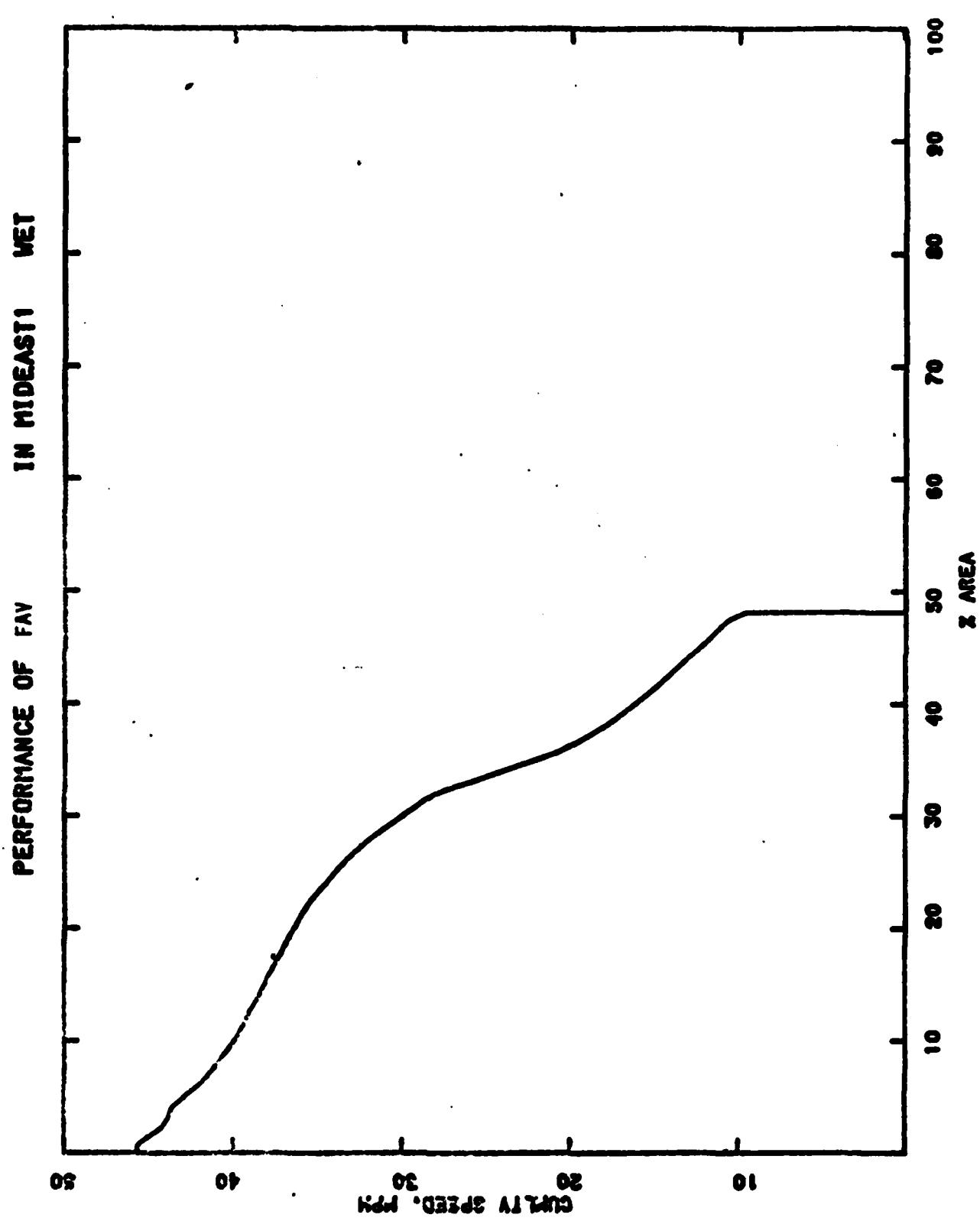




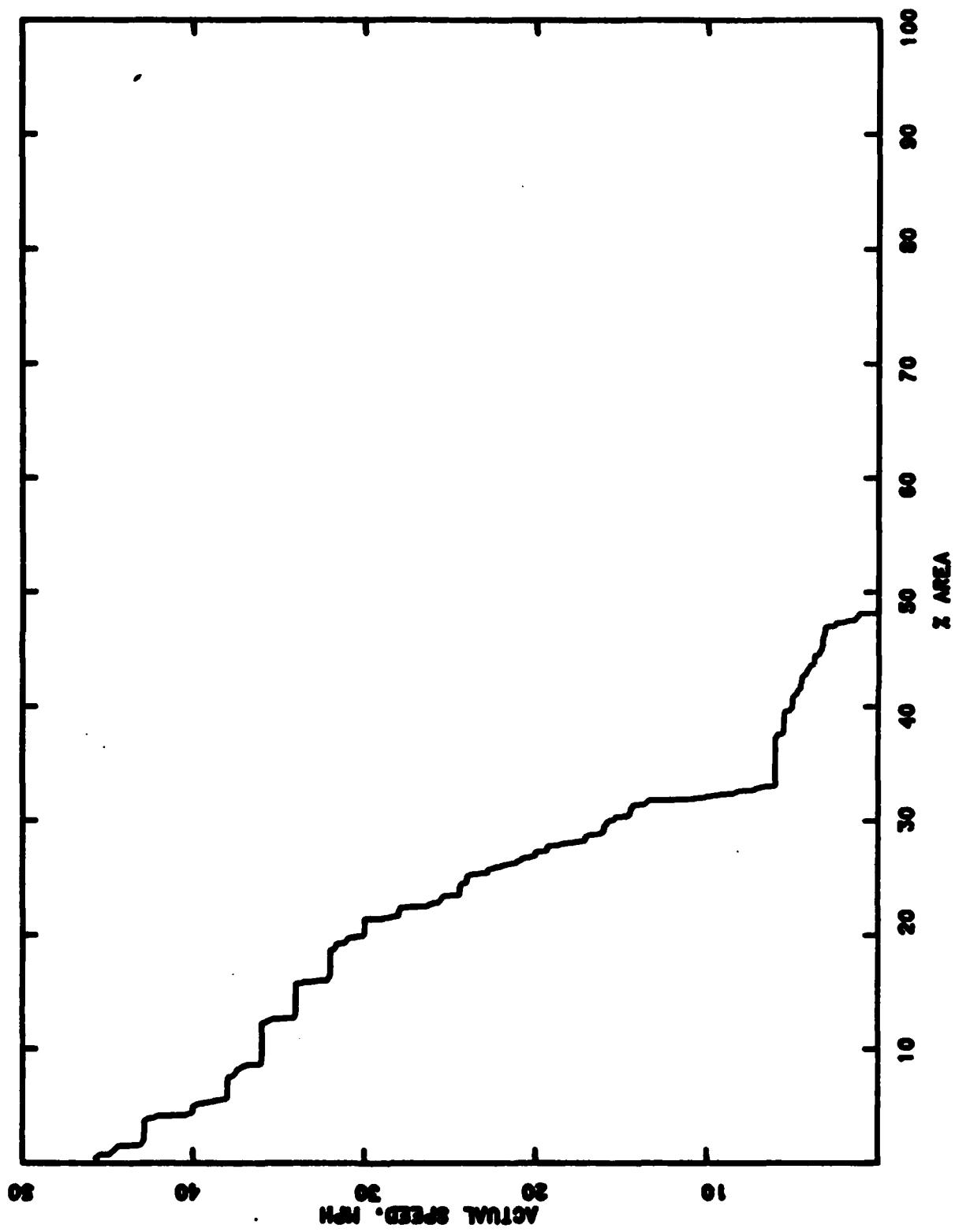


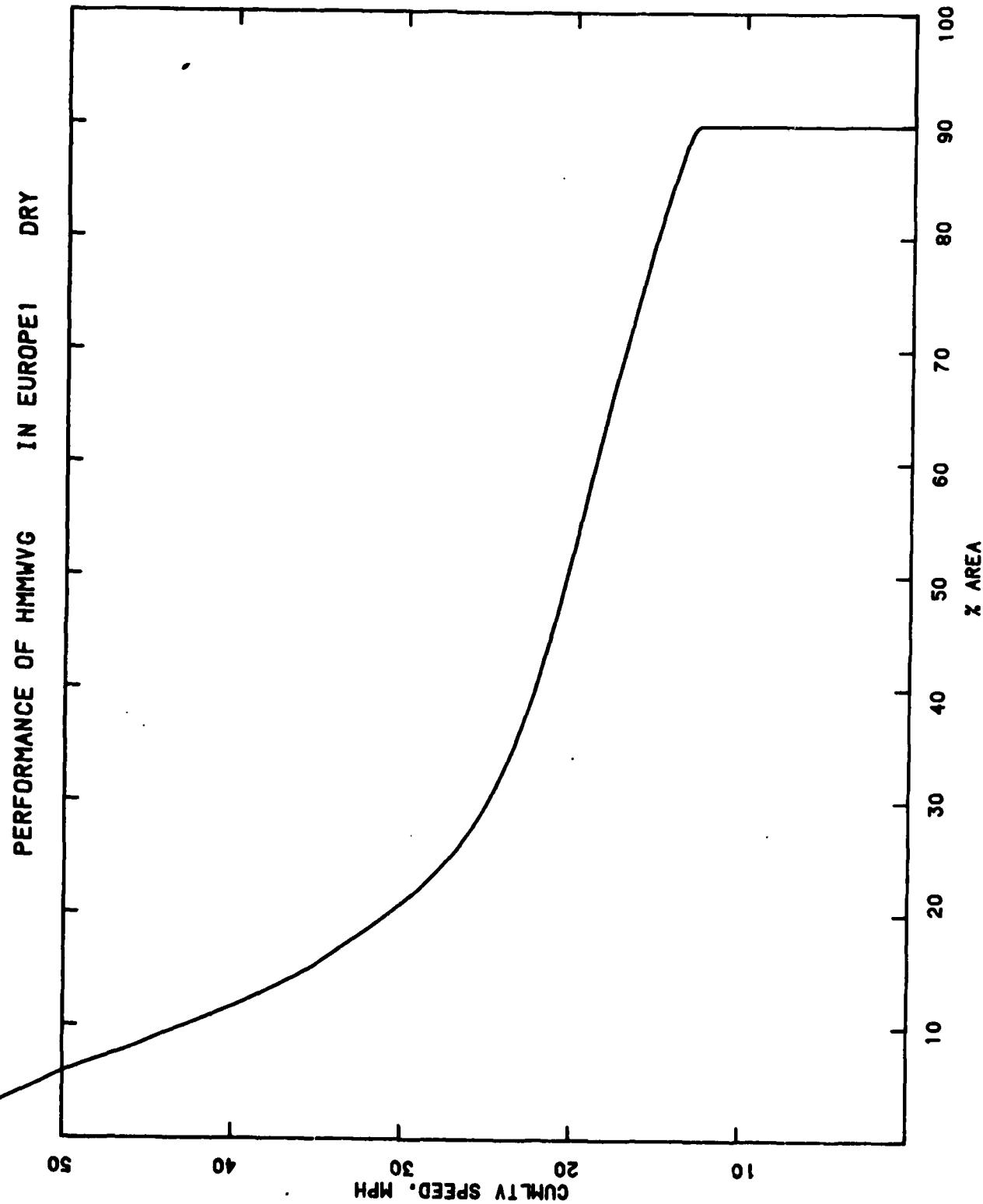




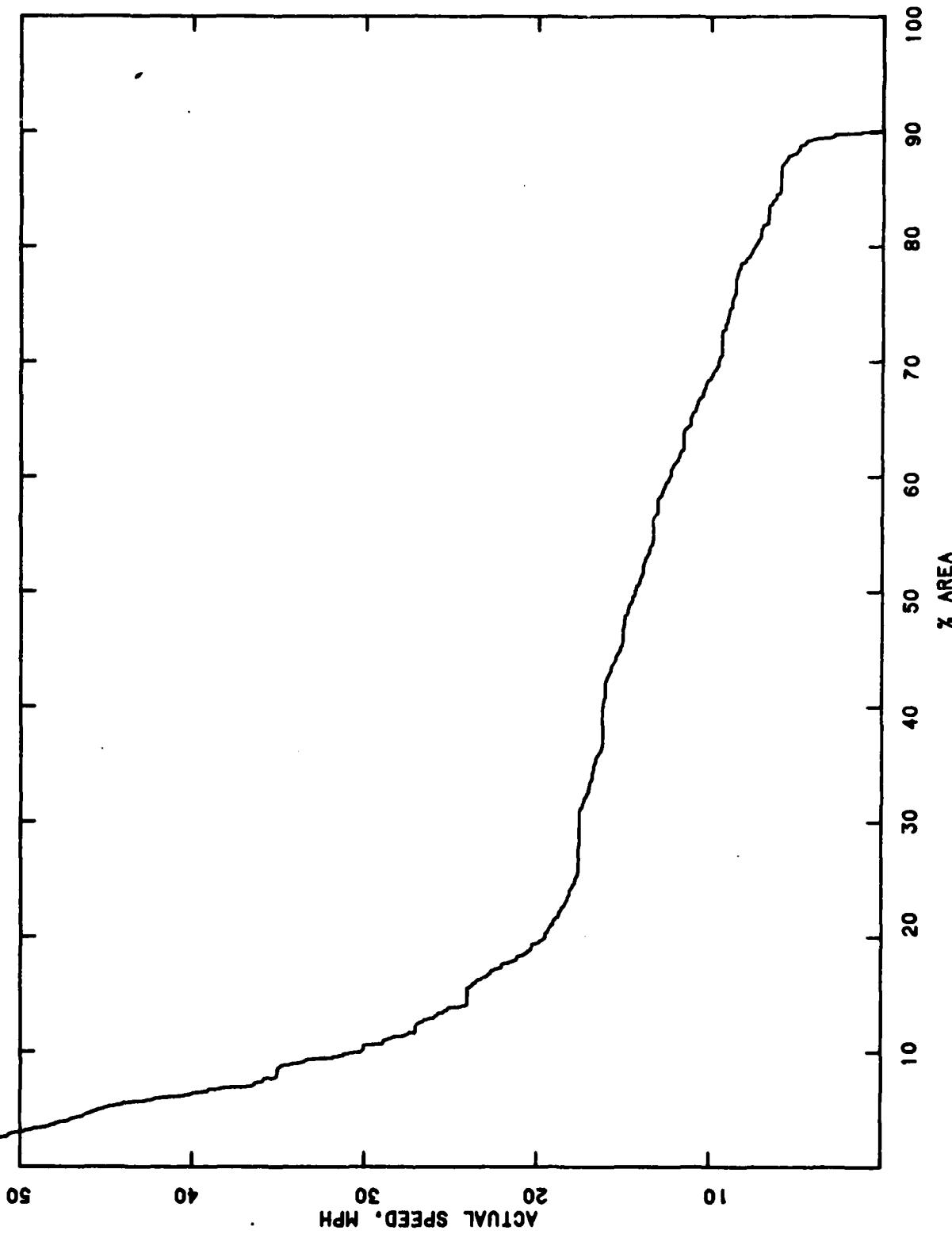


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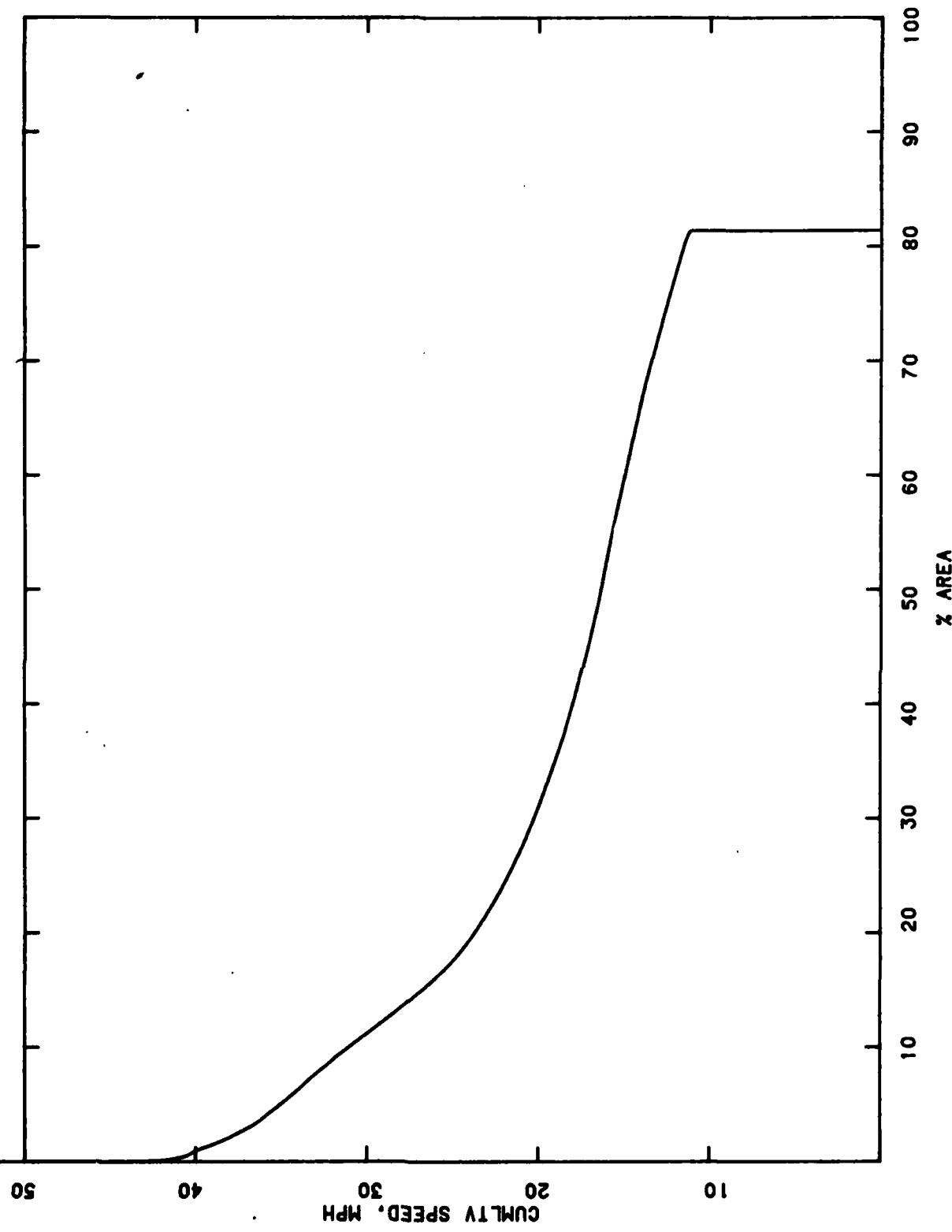




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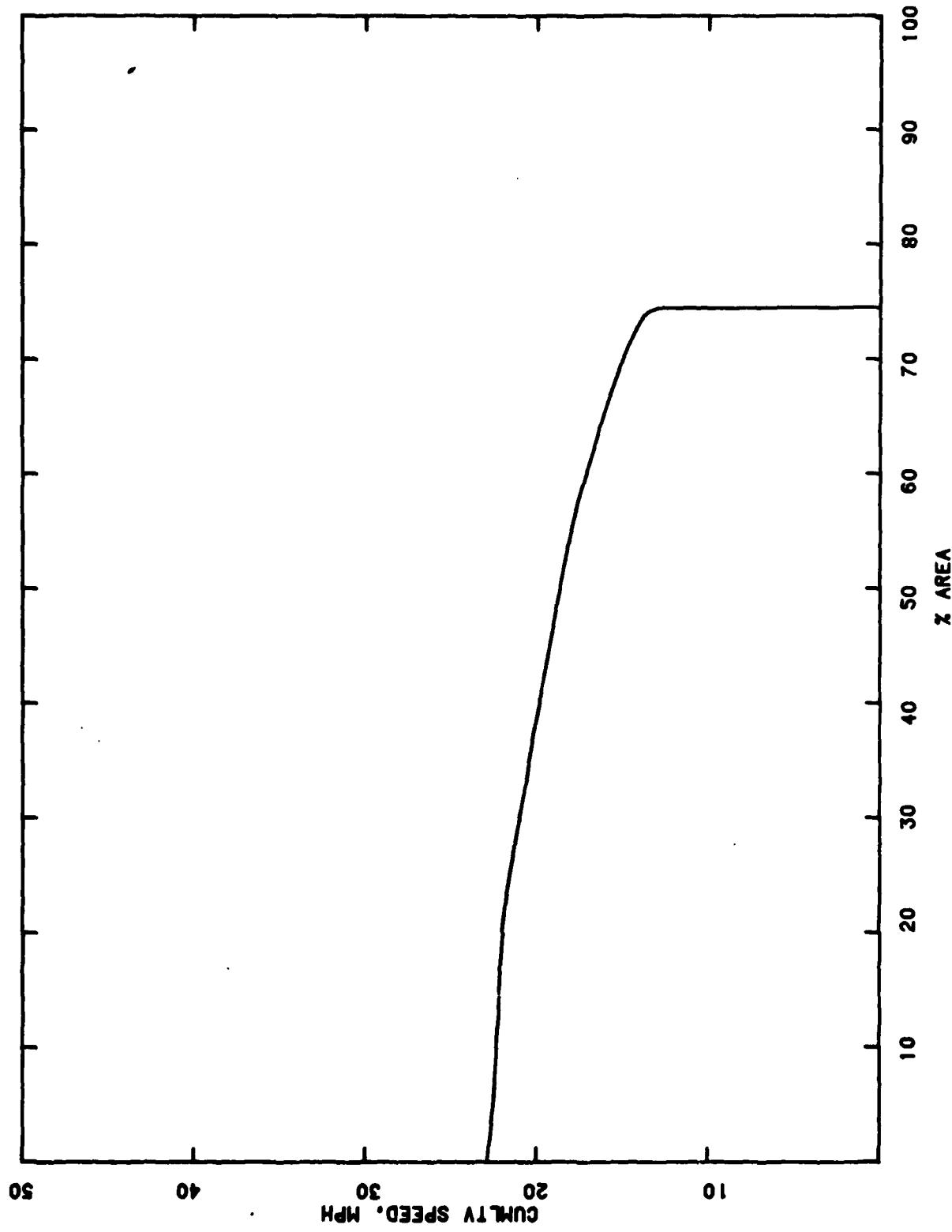


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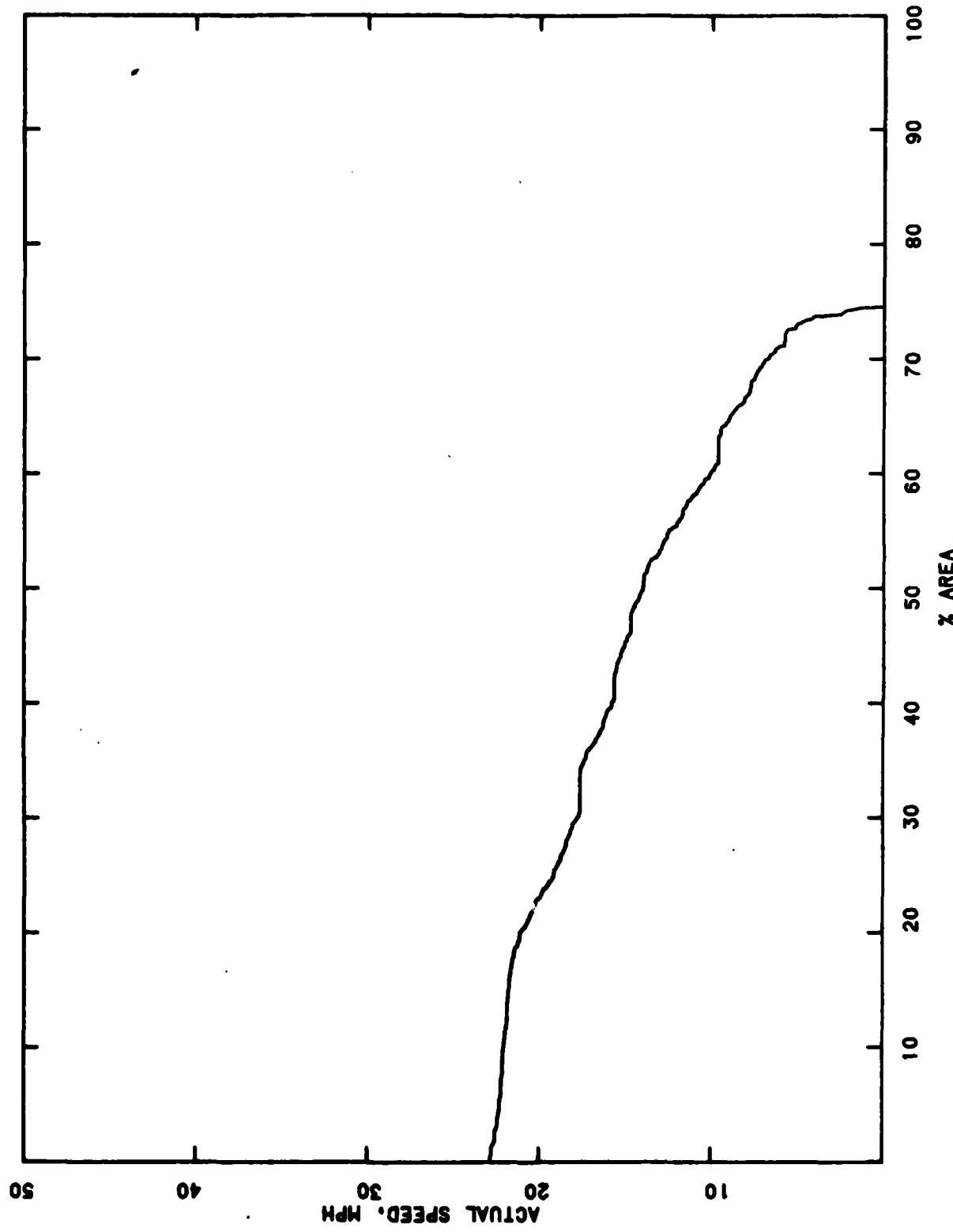
ACTUAL SPEED, MPH

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% AREA

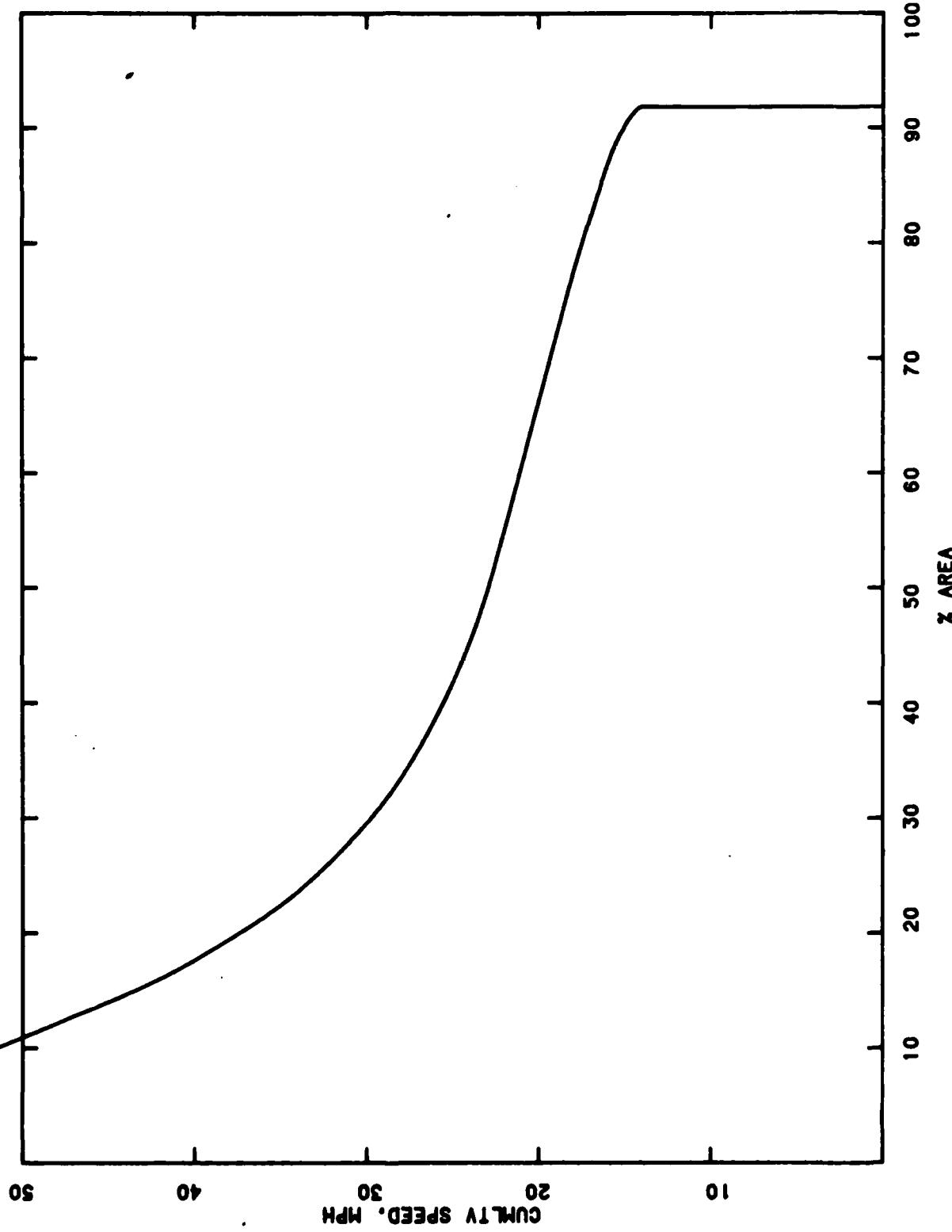
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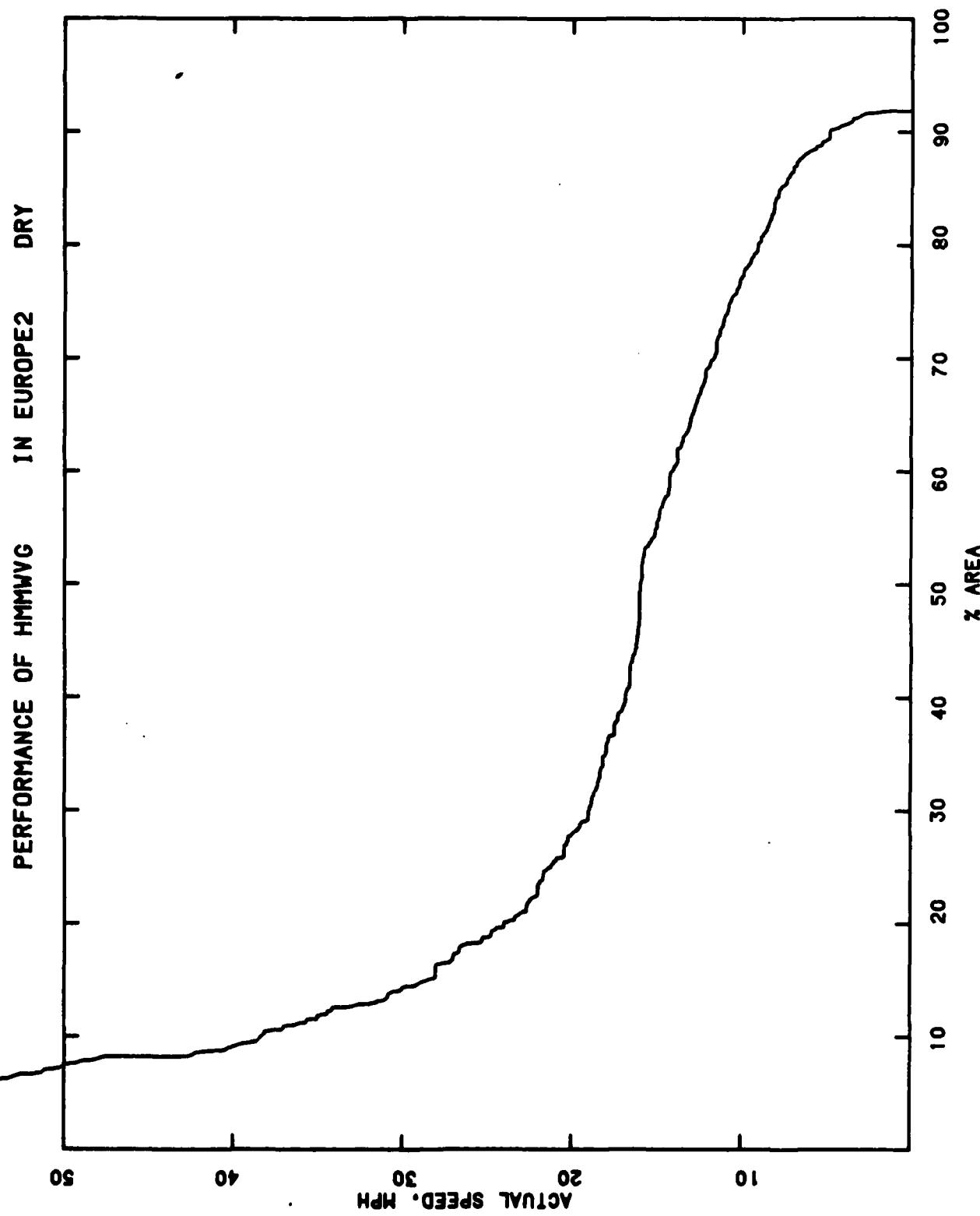


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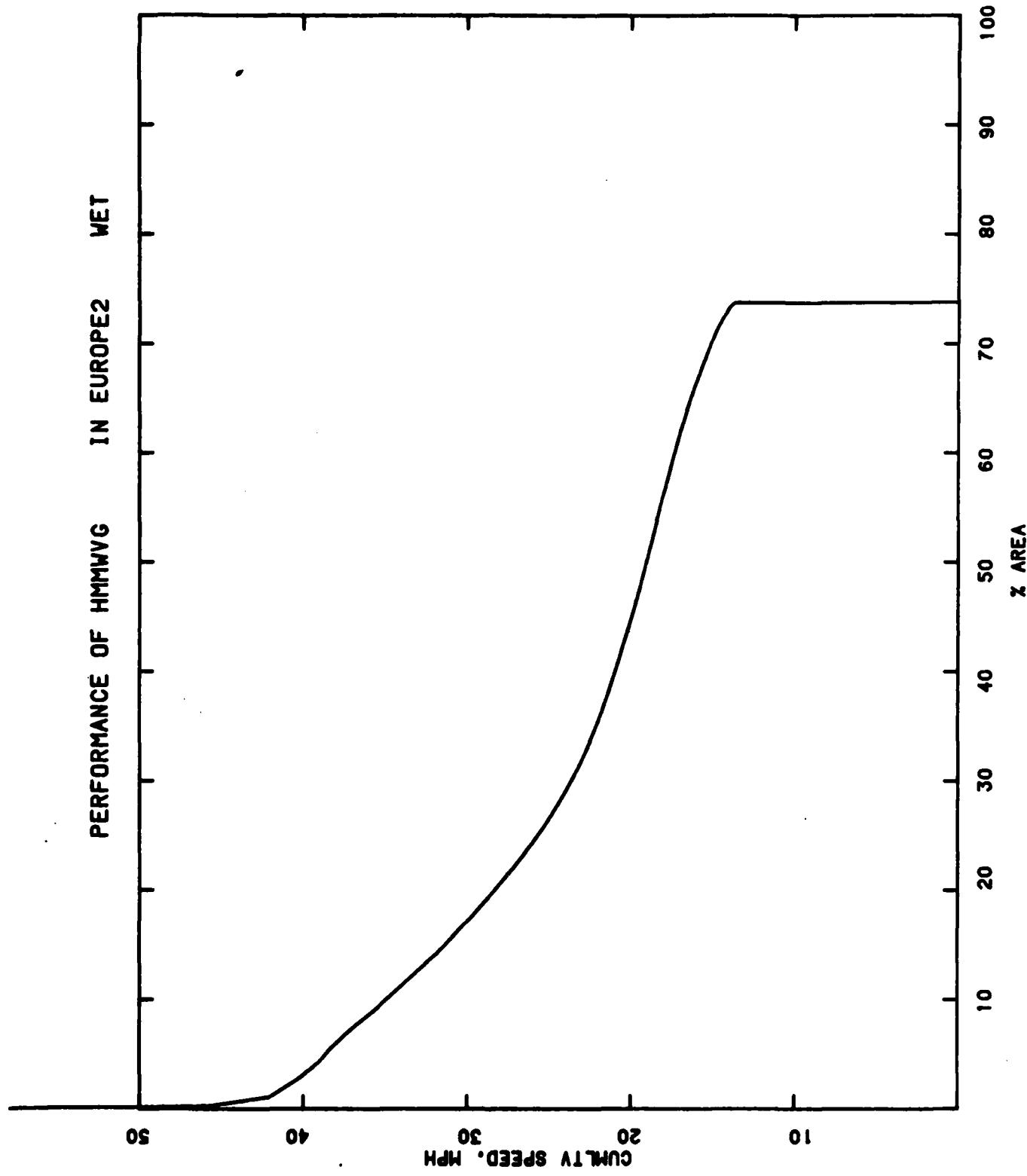


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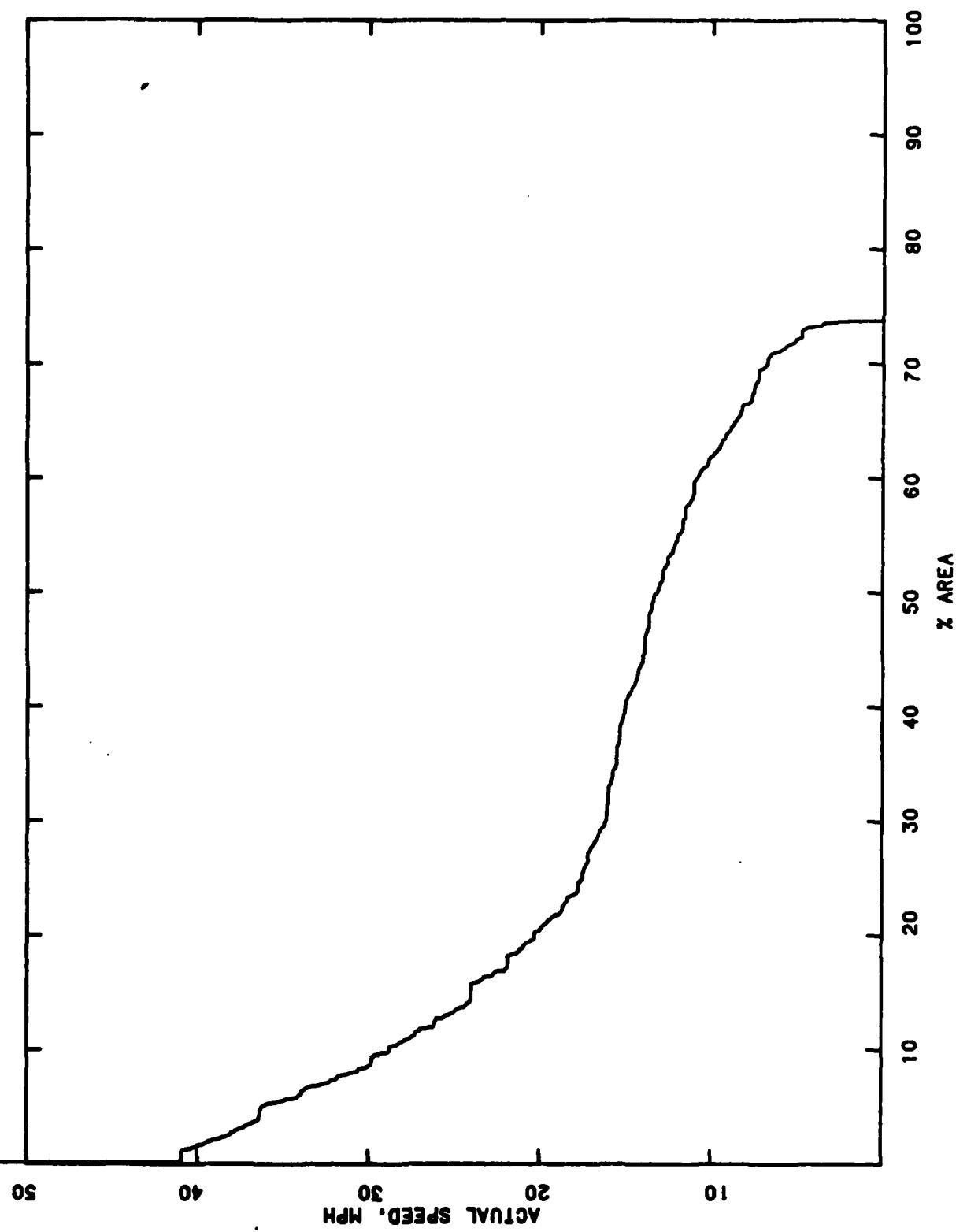


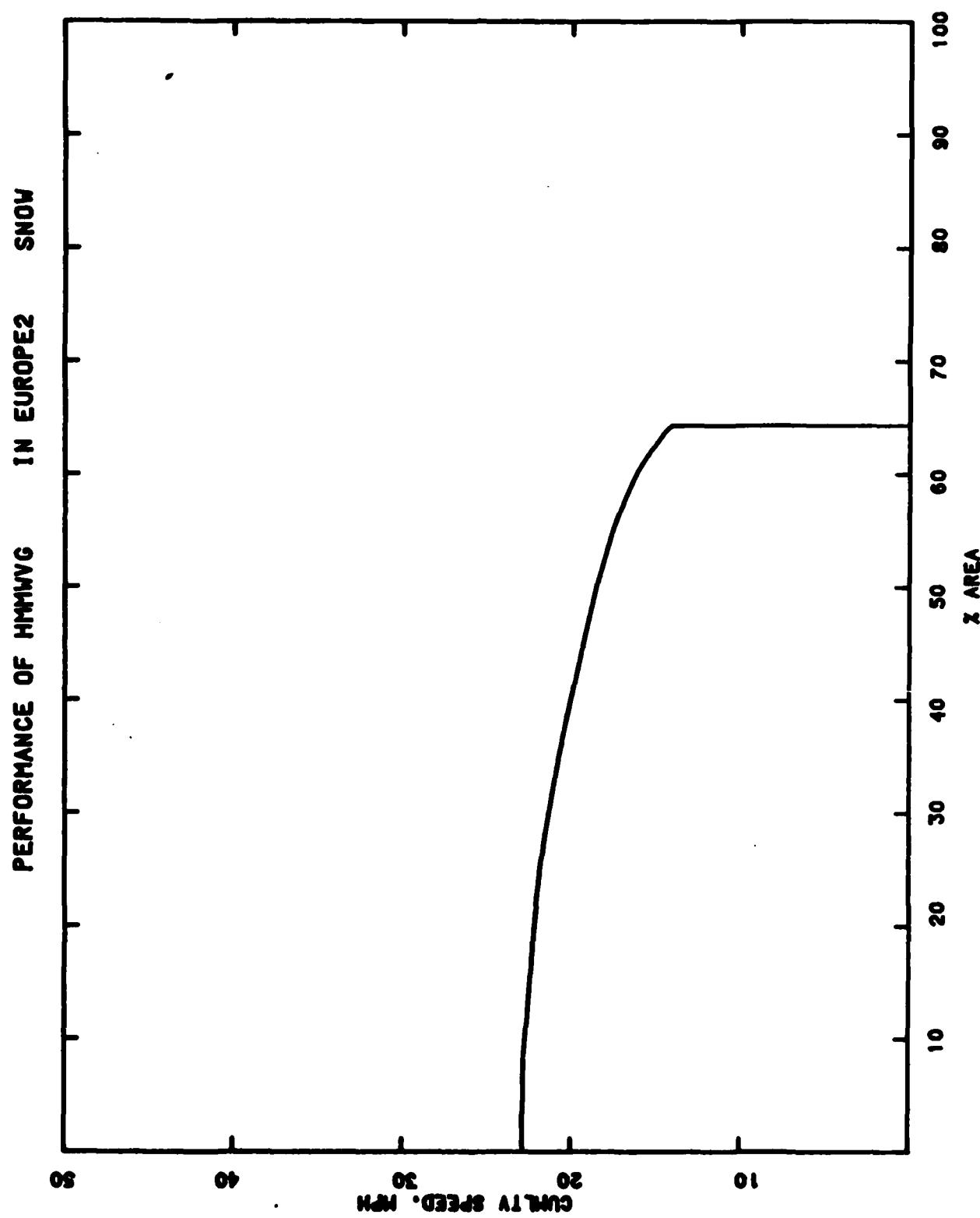


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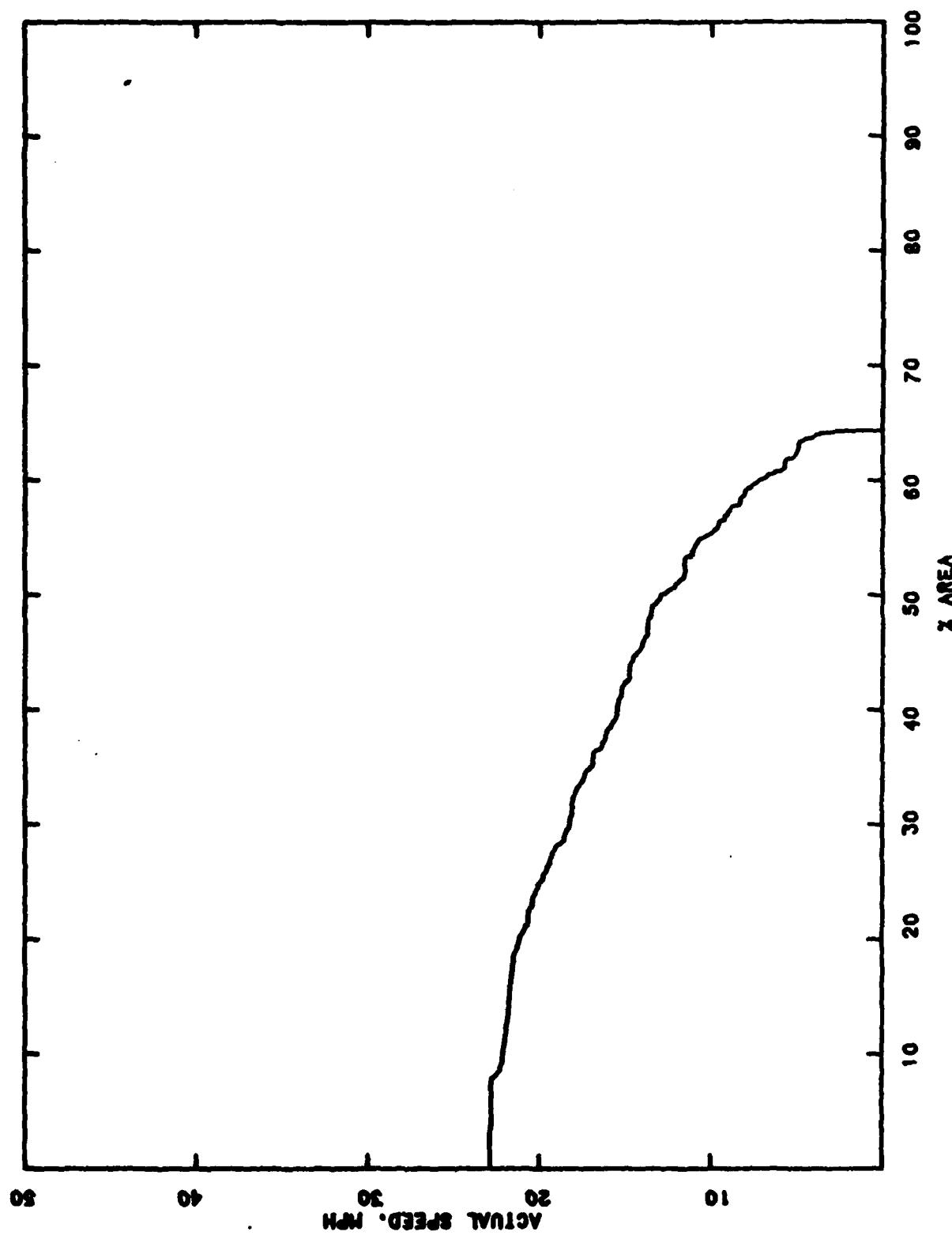


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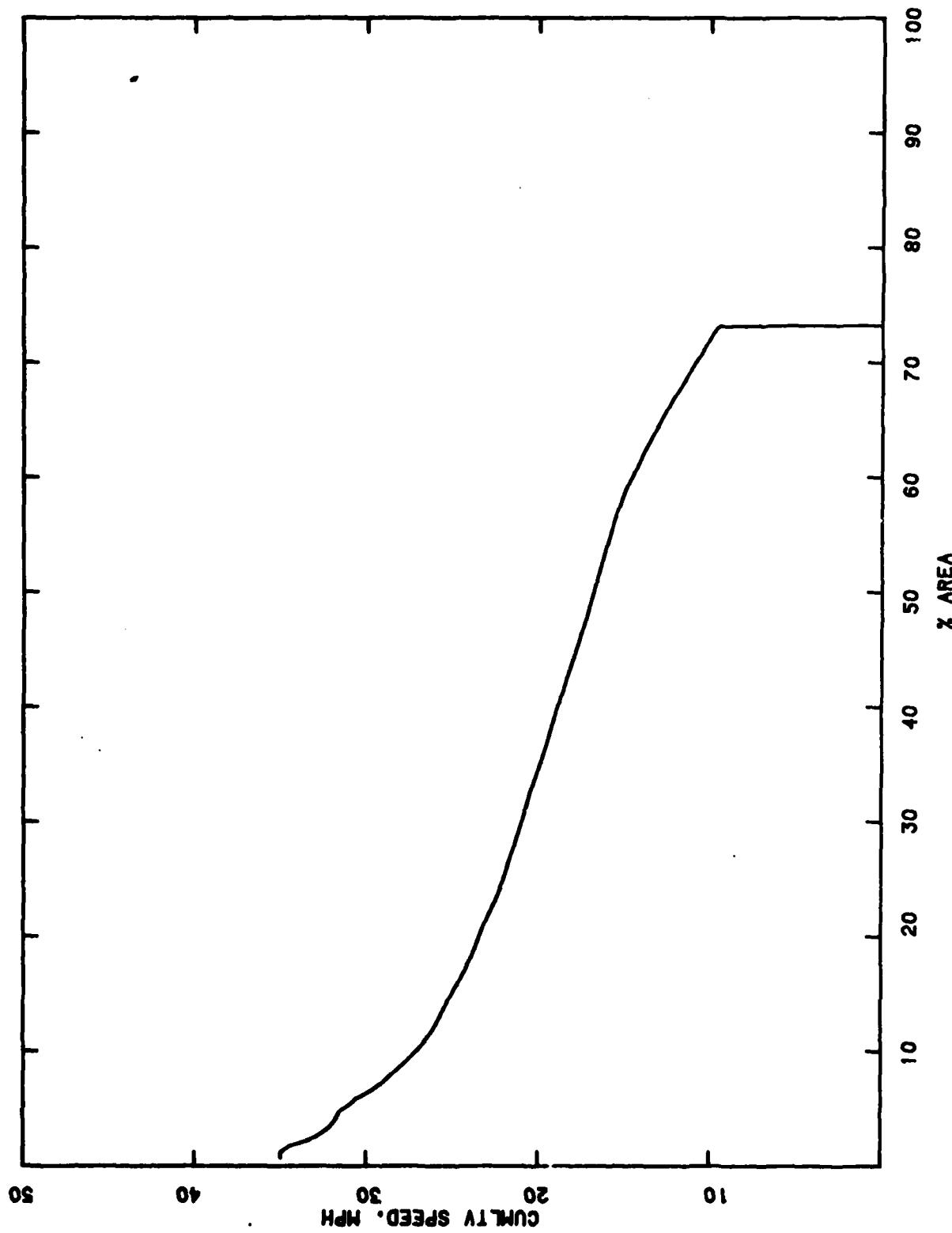




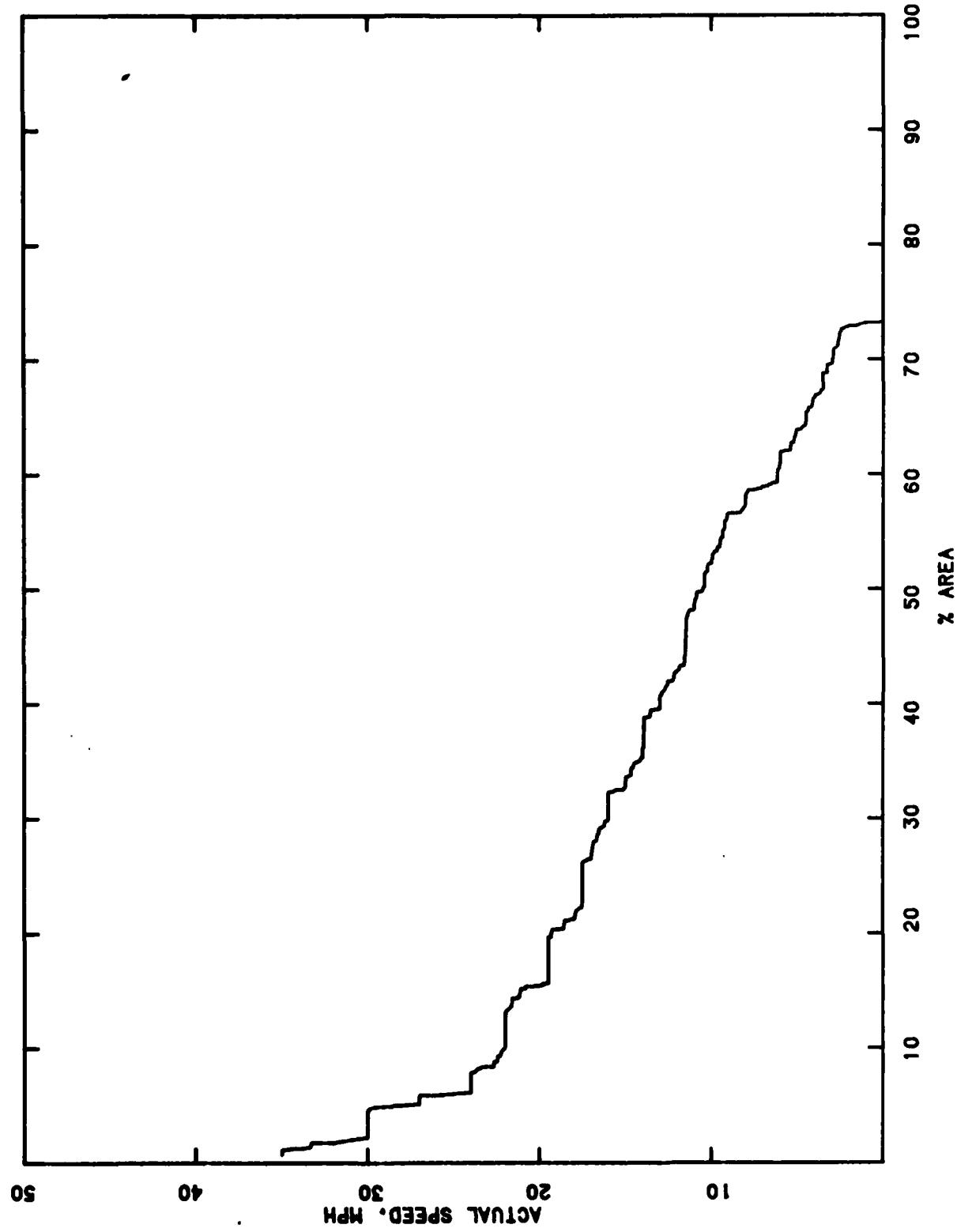
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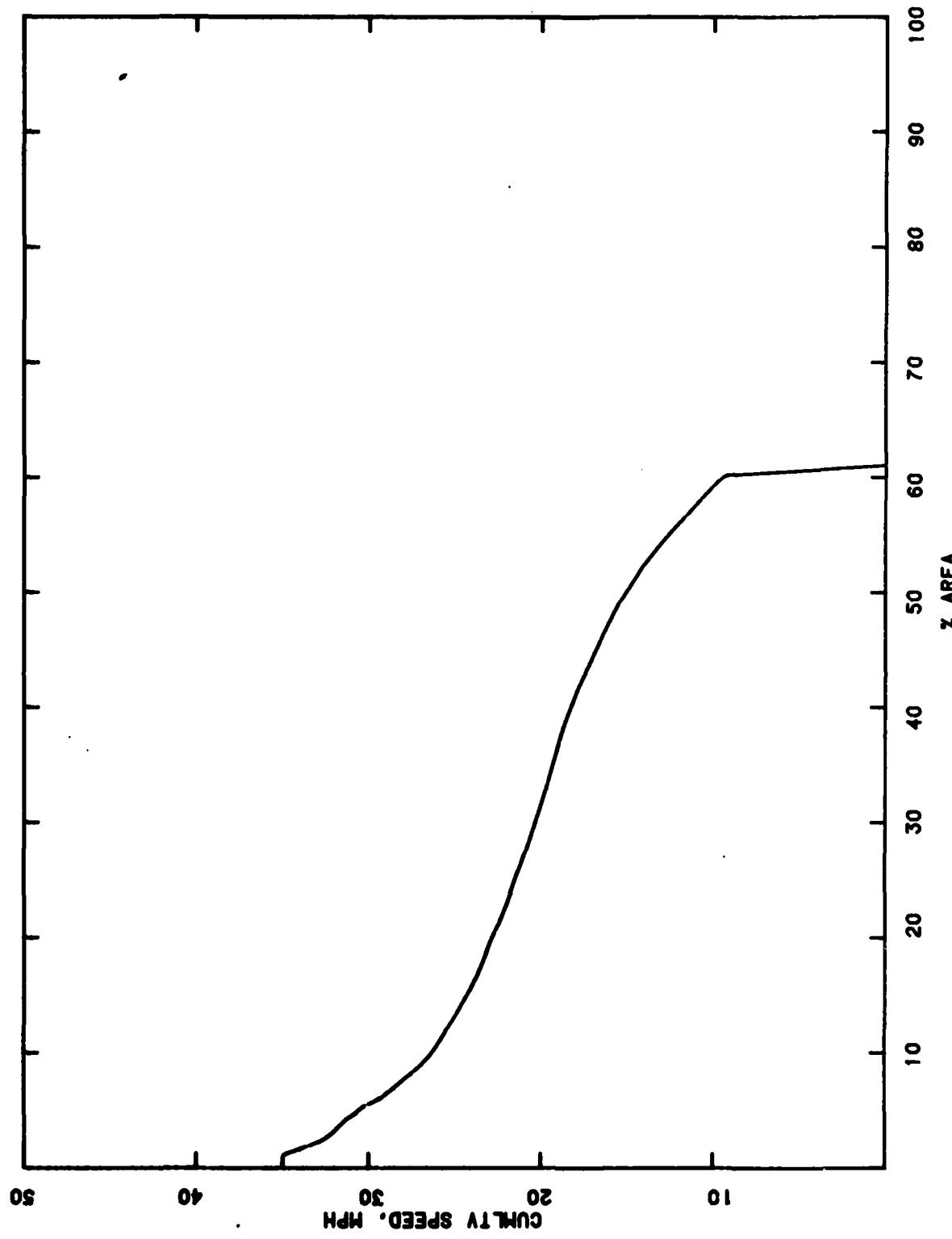
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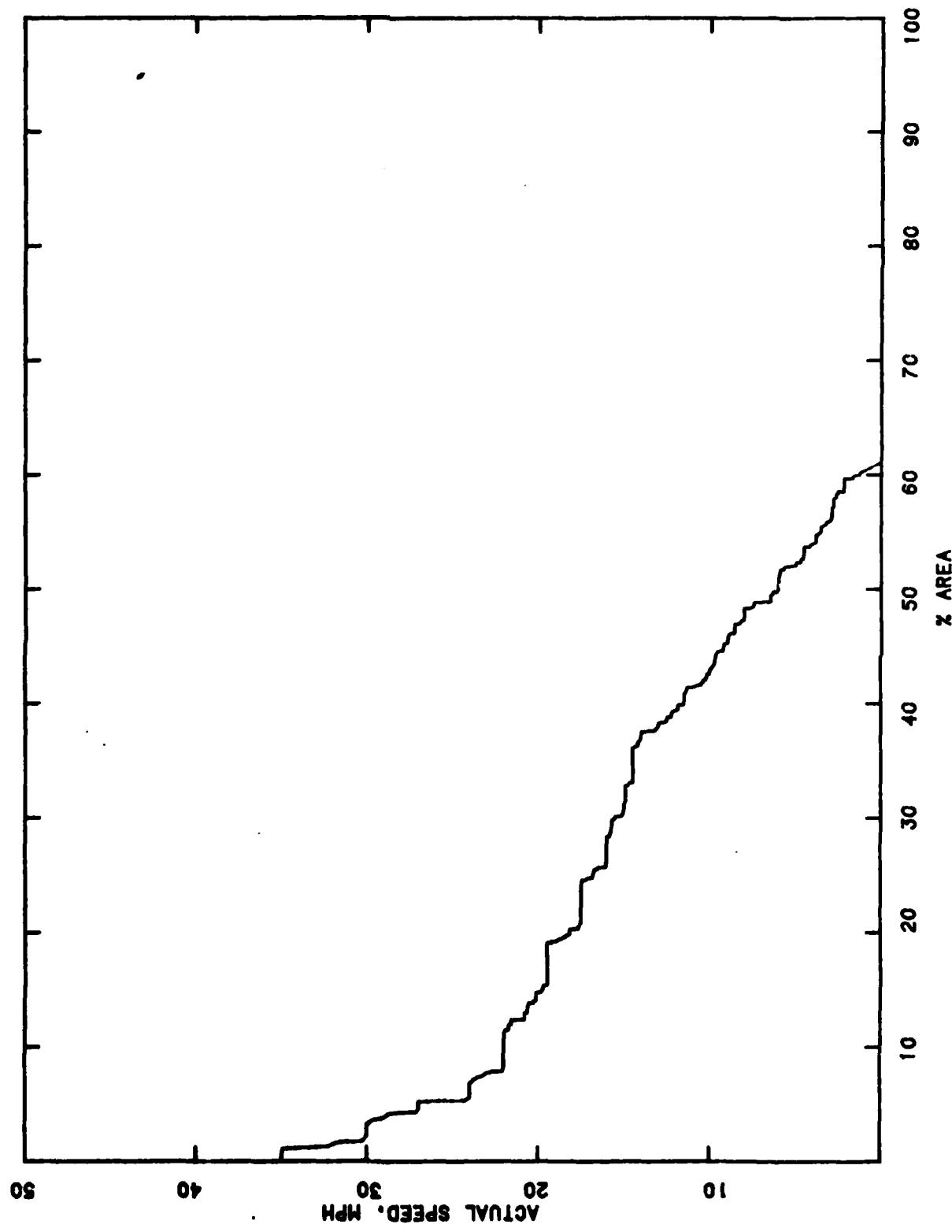
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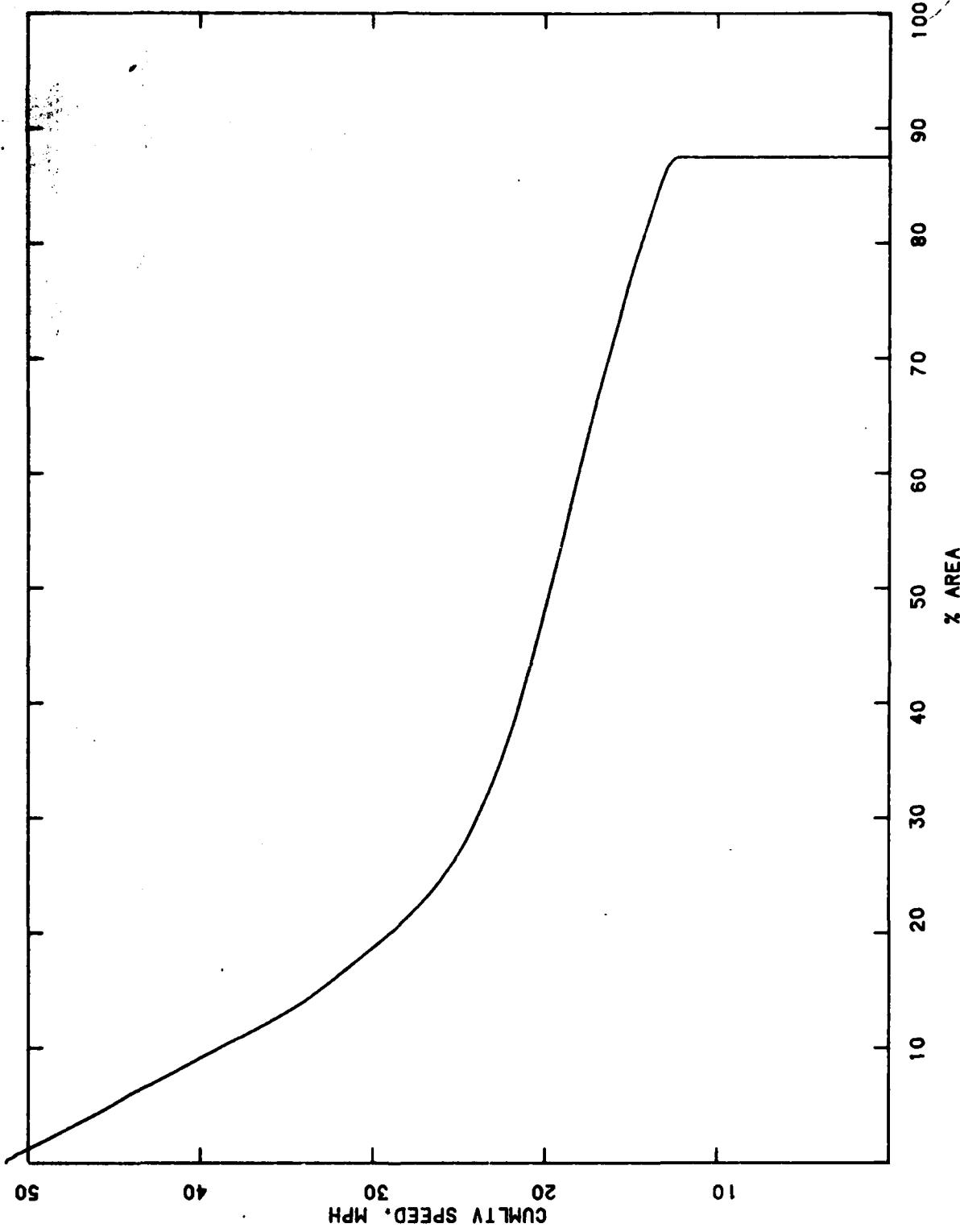
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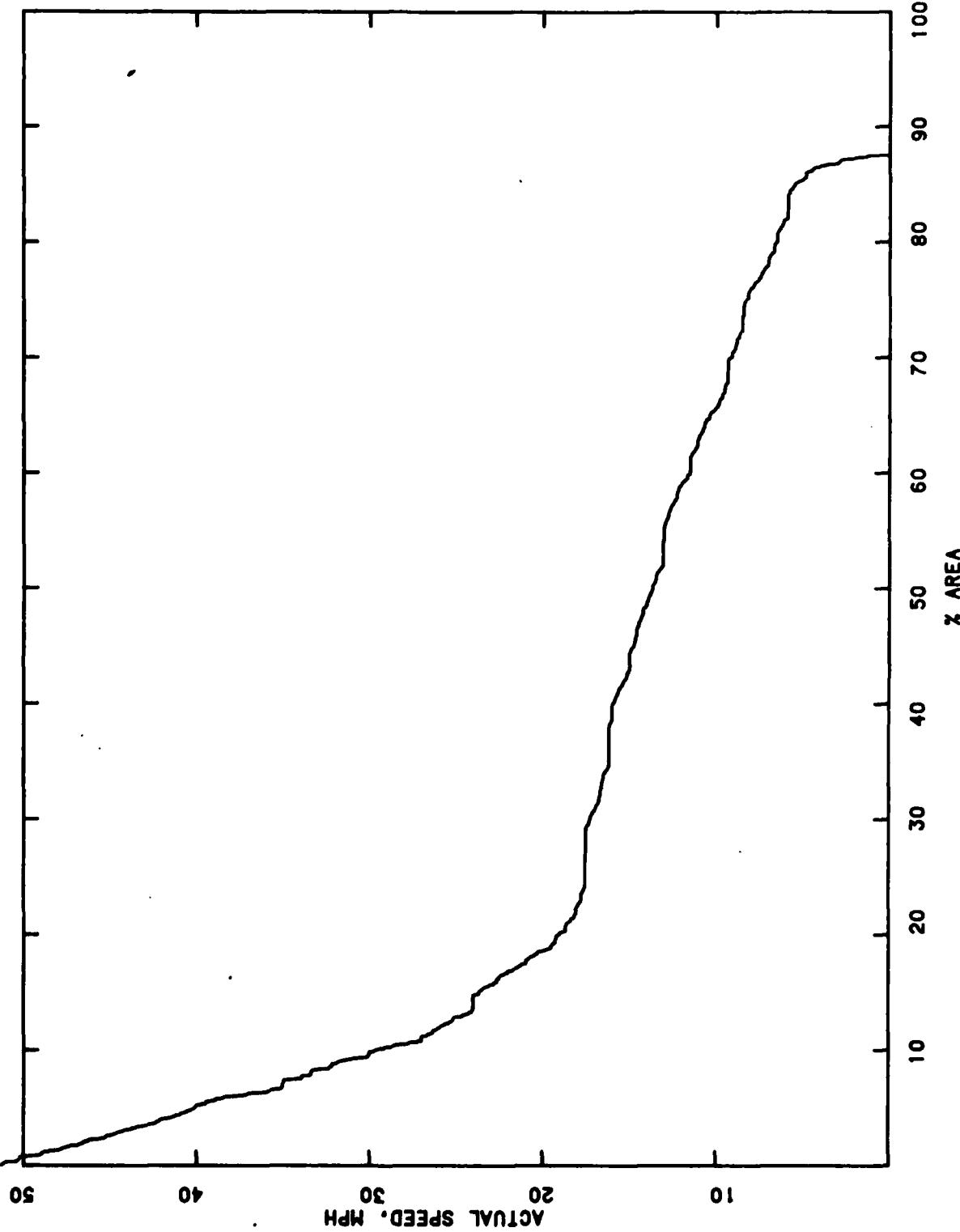
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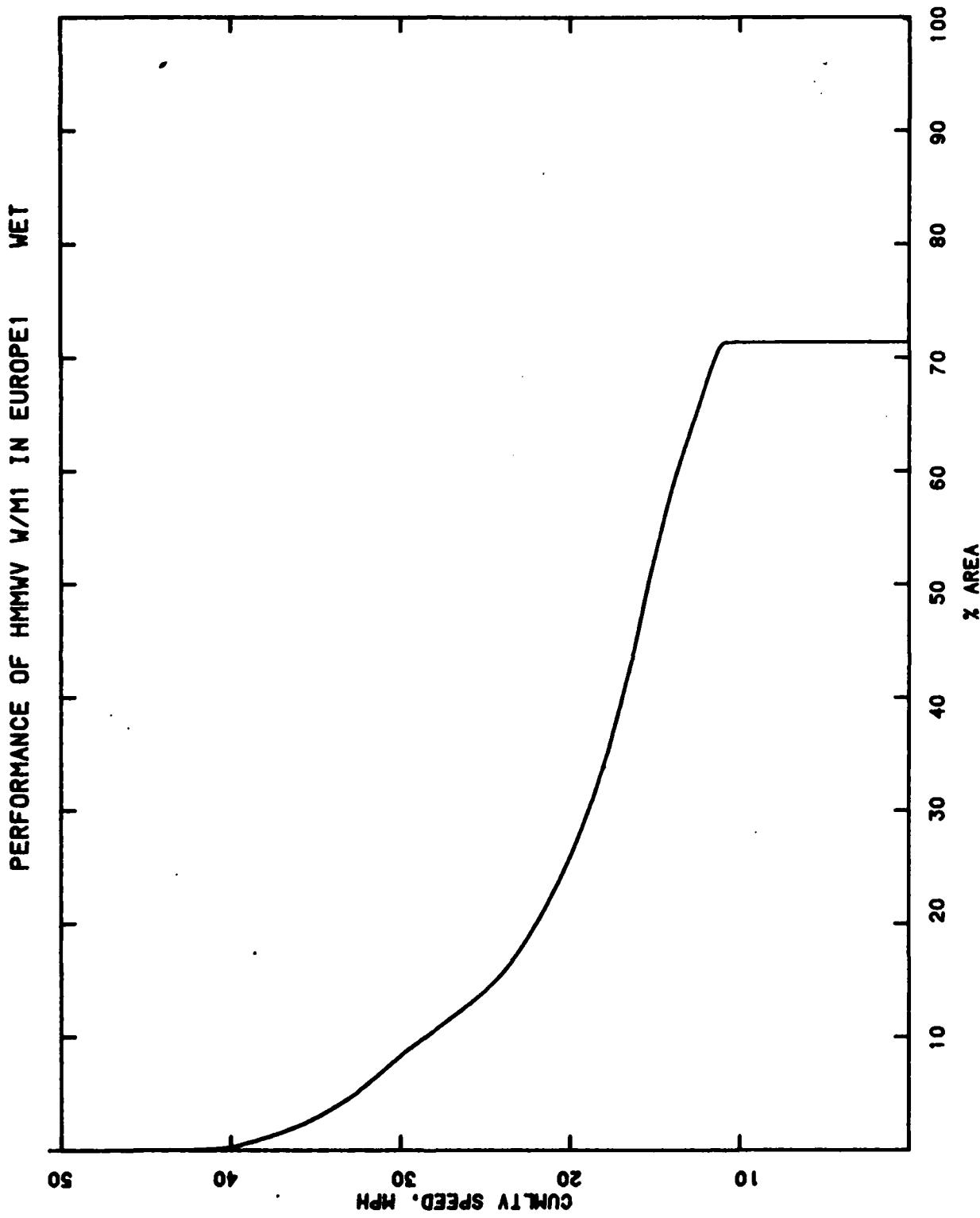


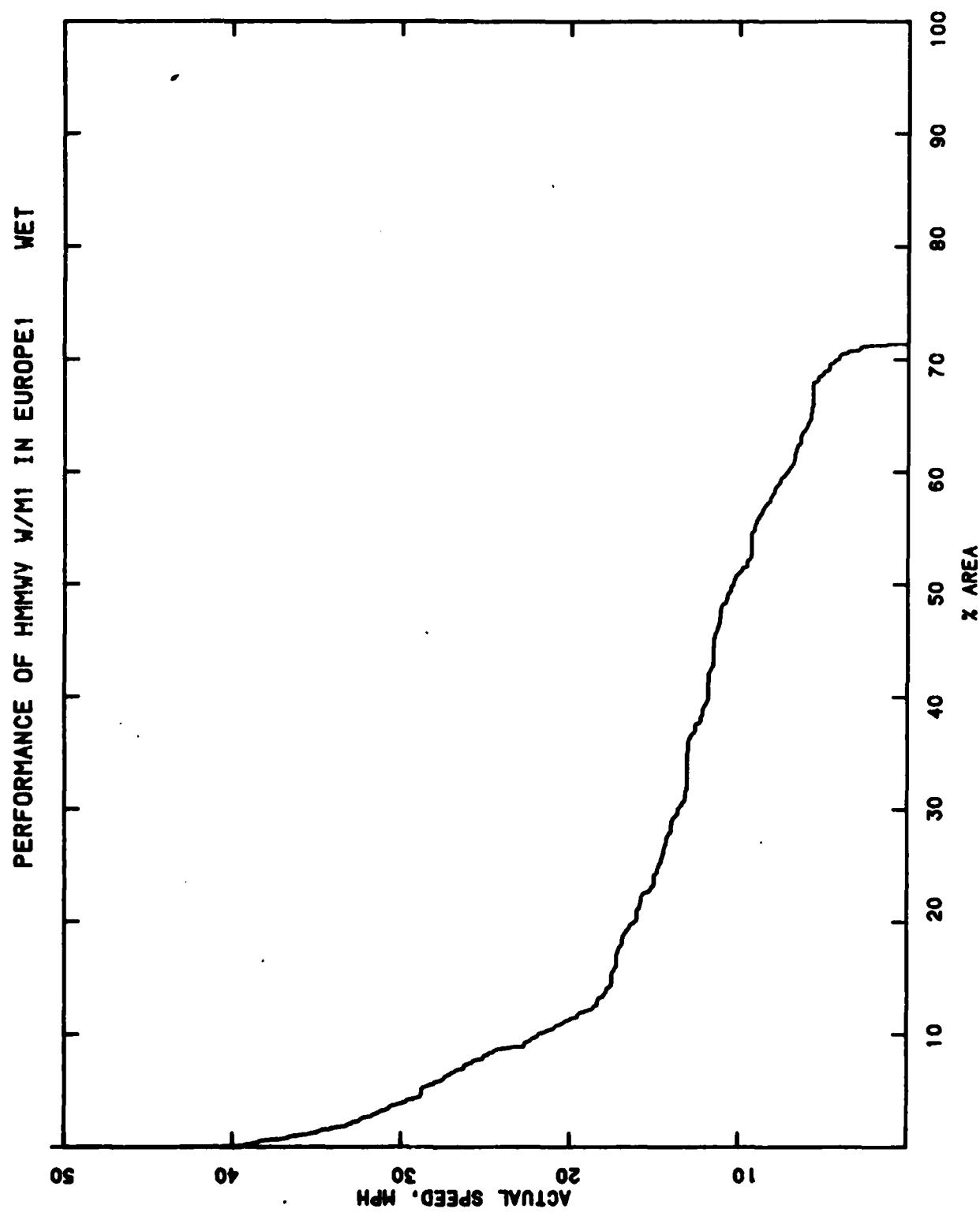
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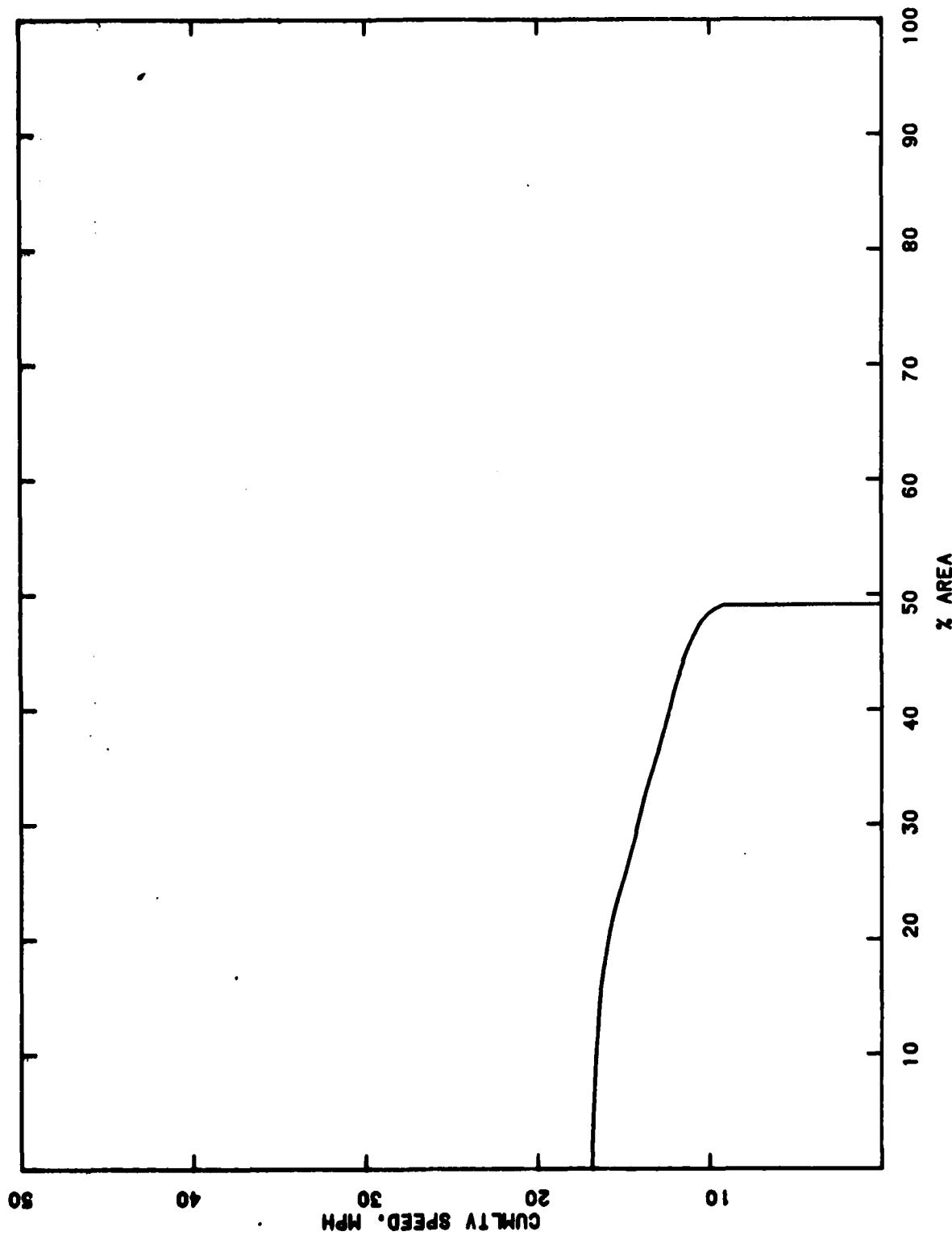
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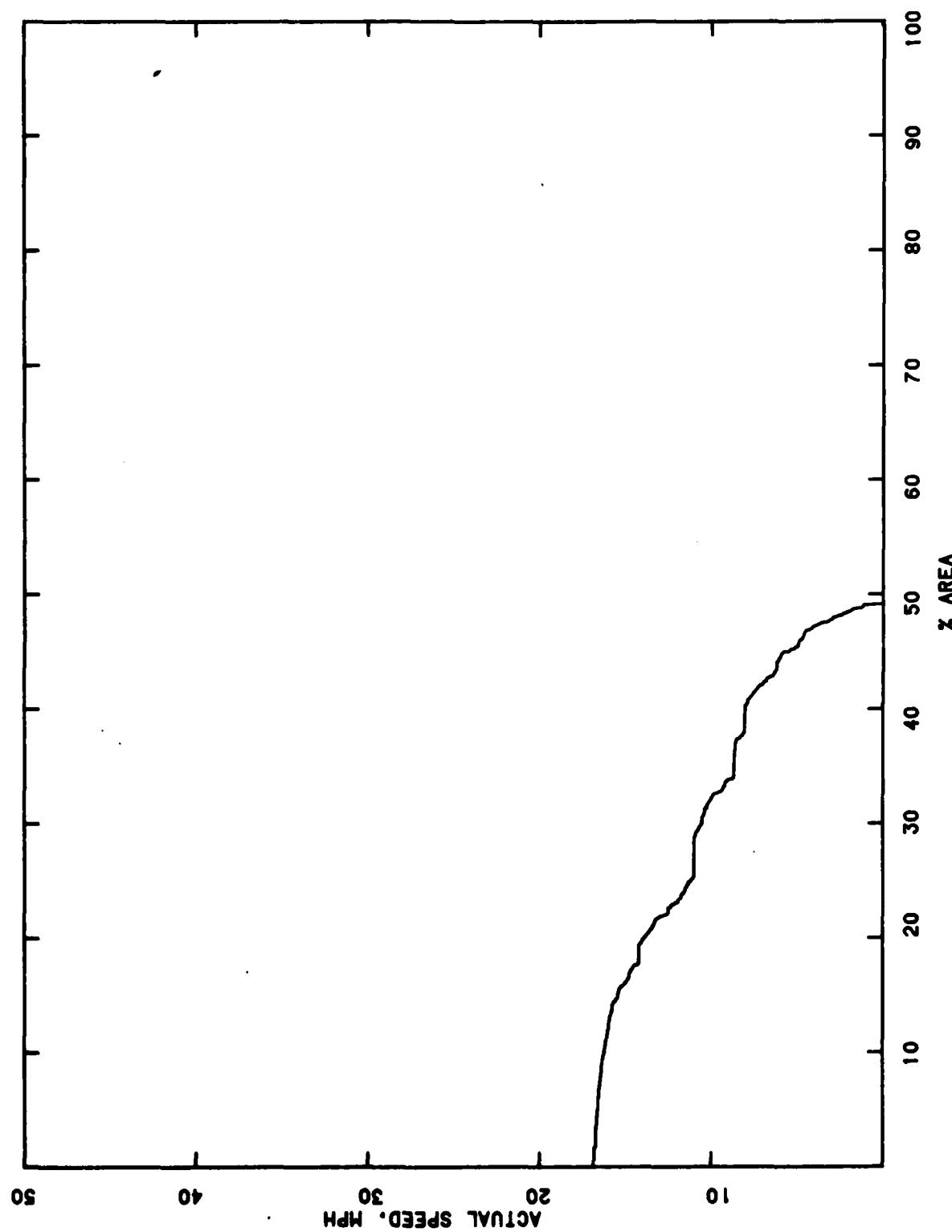


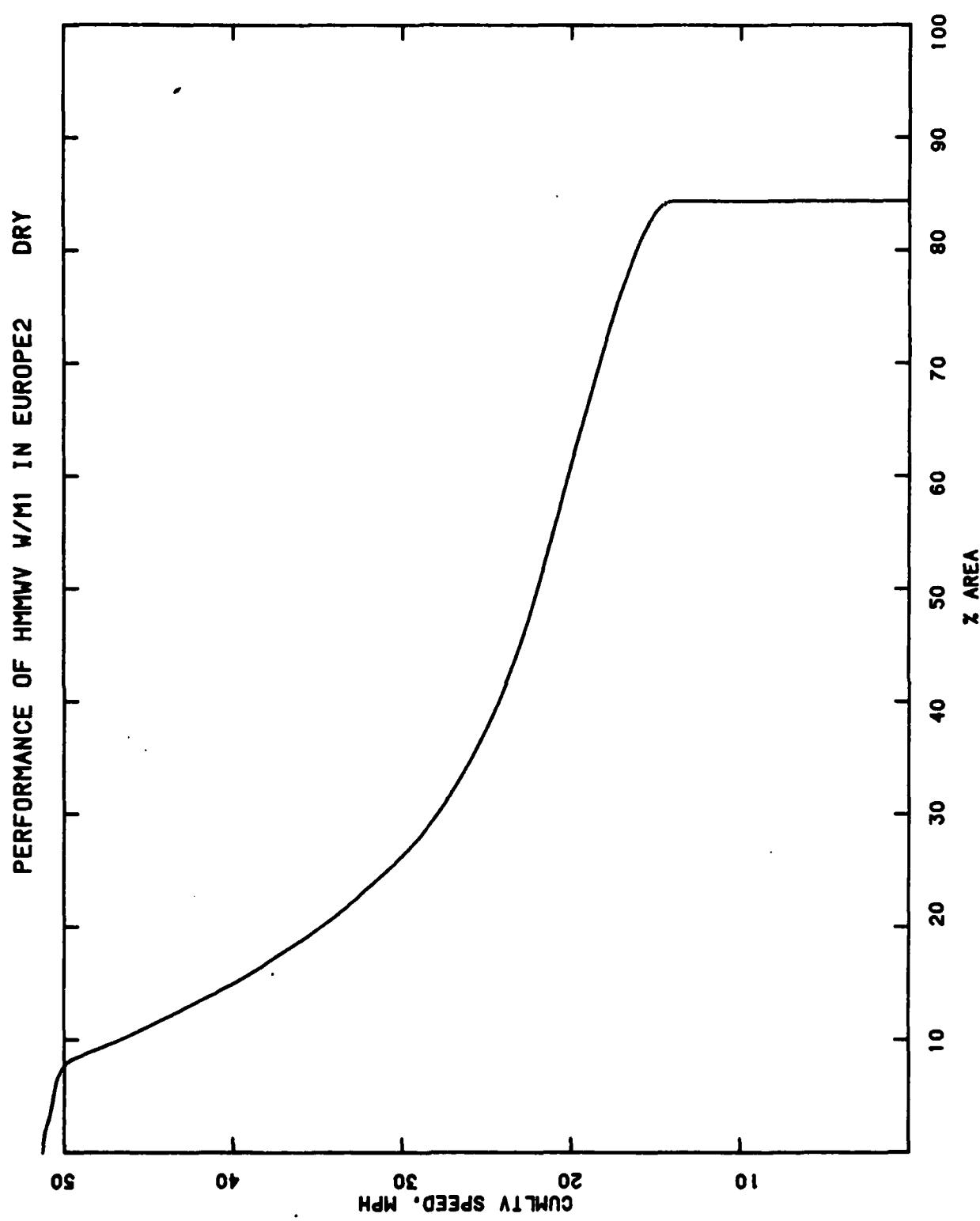


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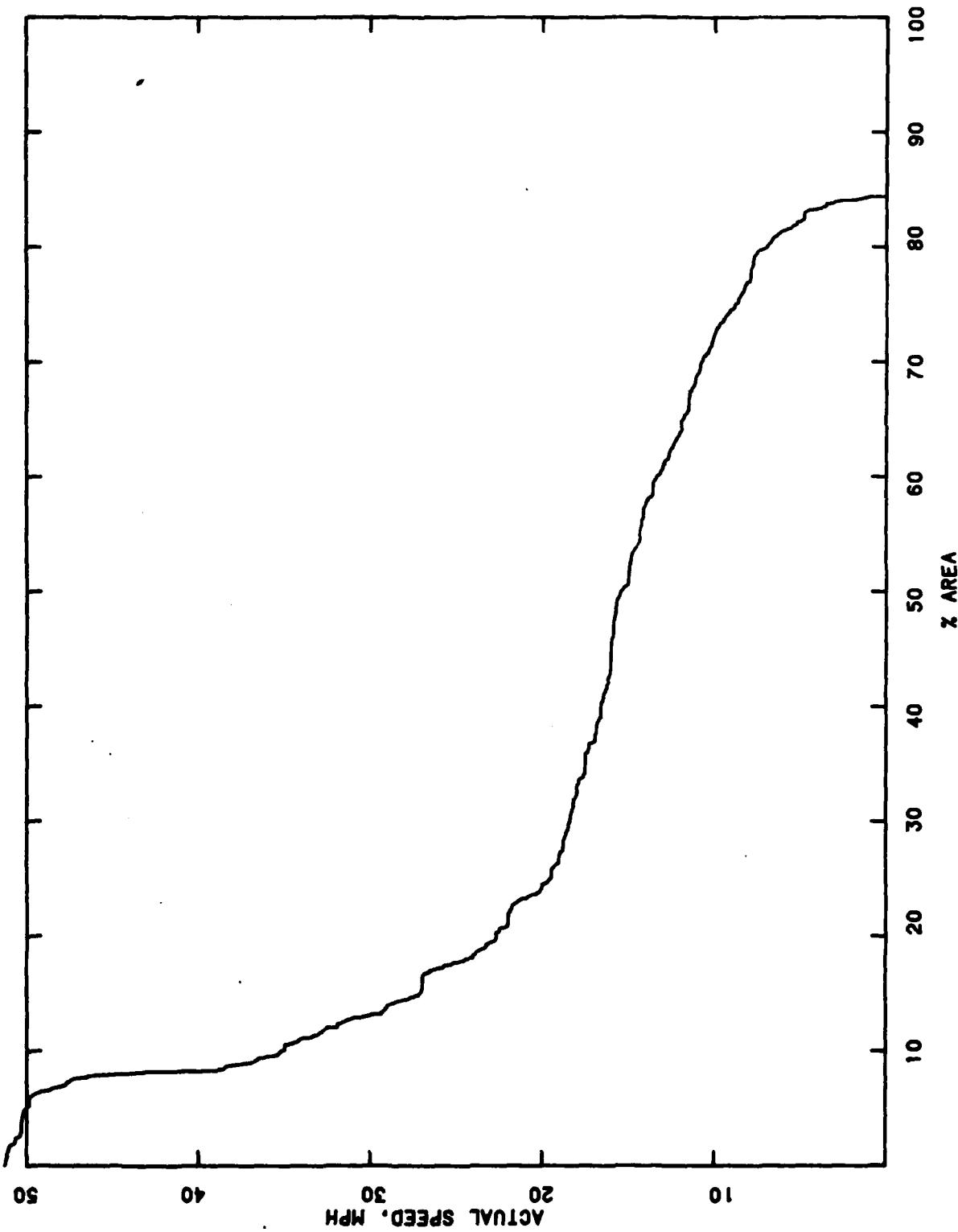


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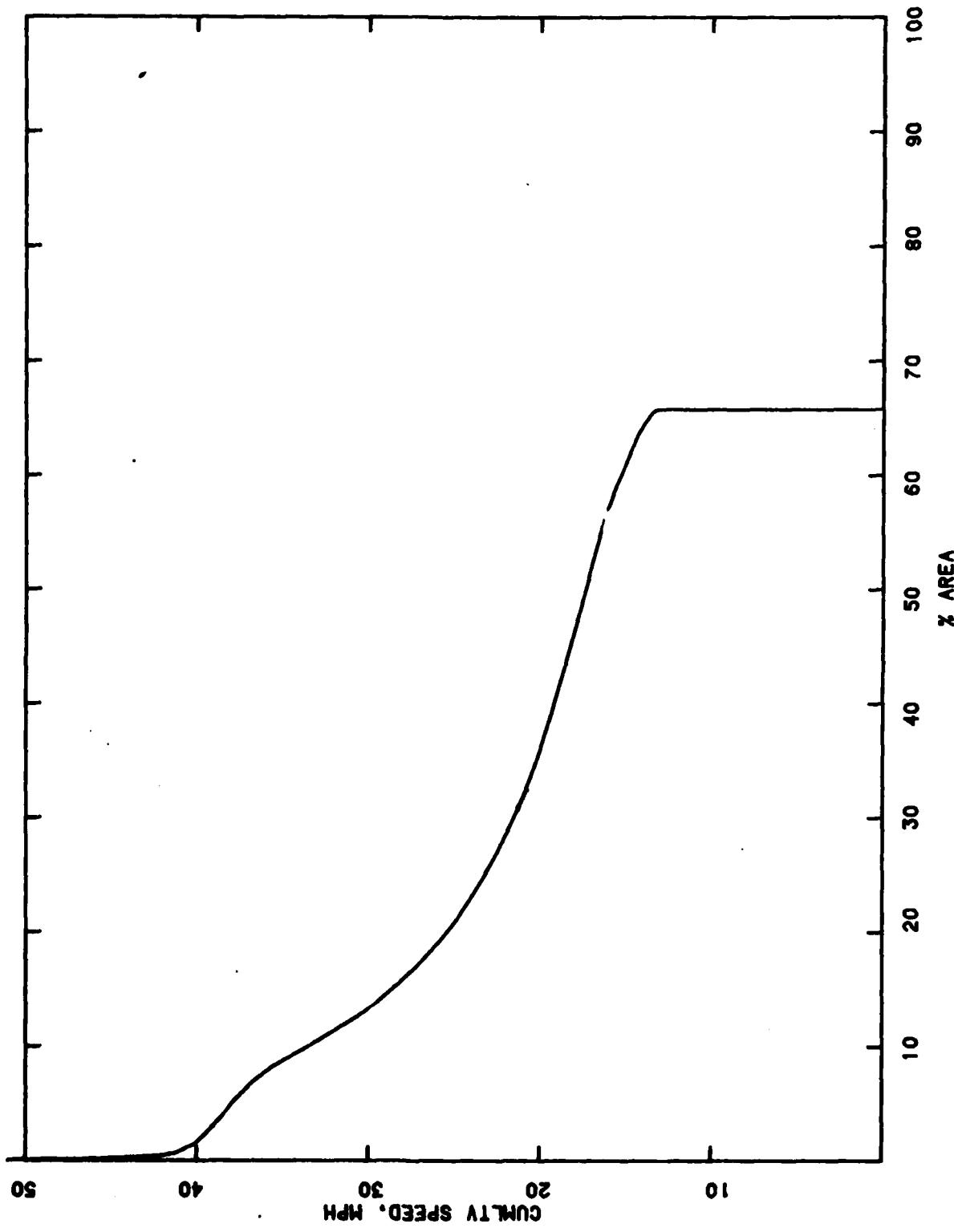




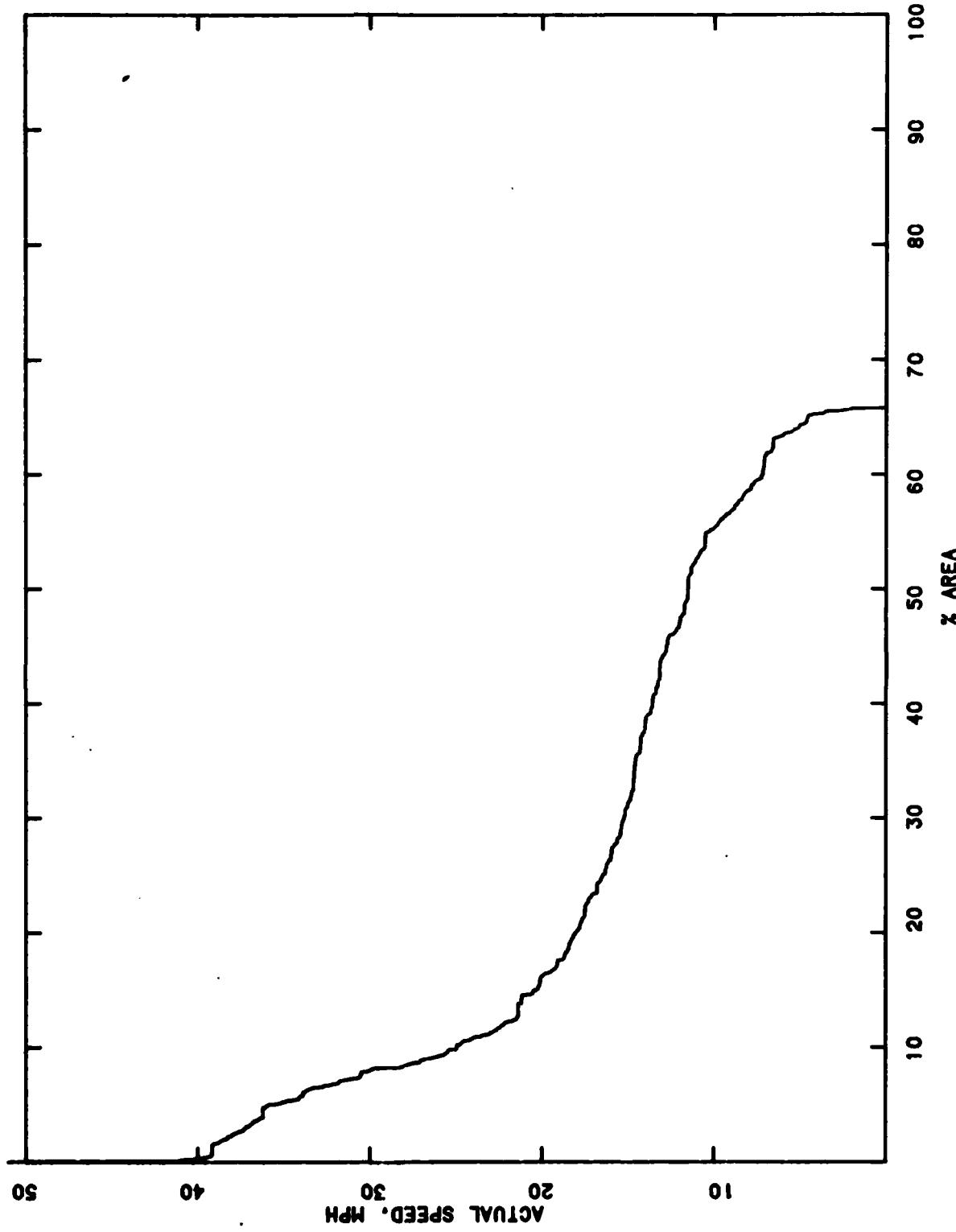
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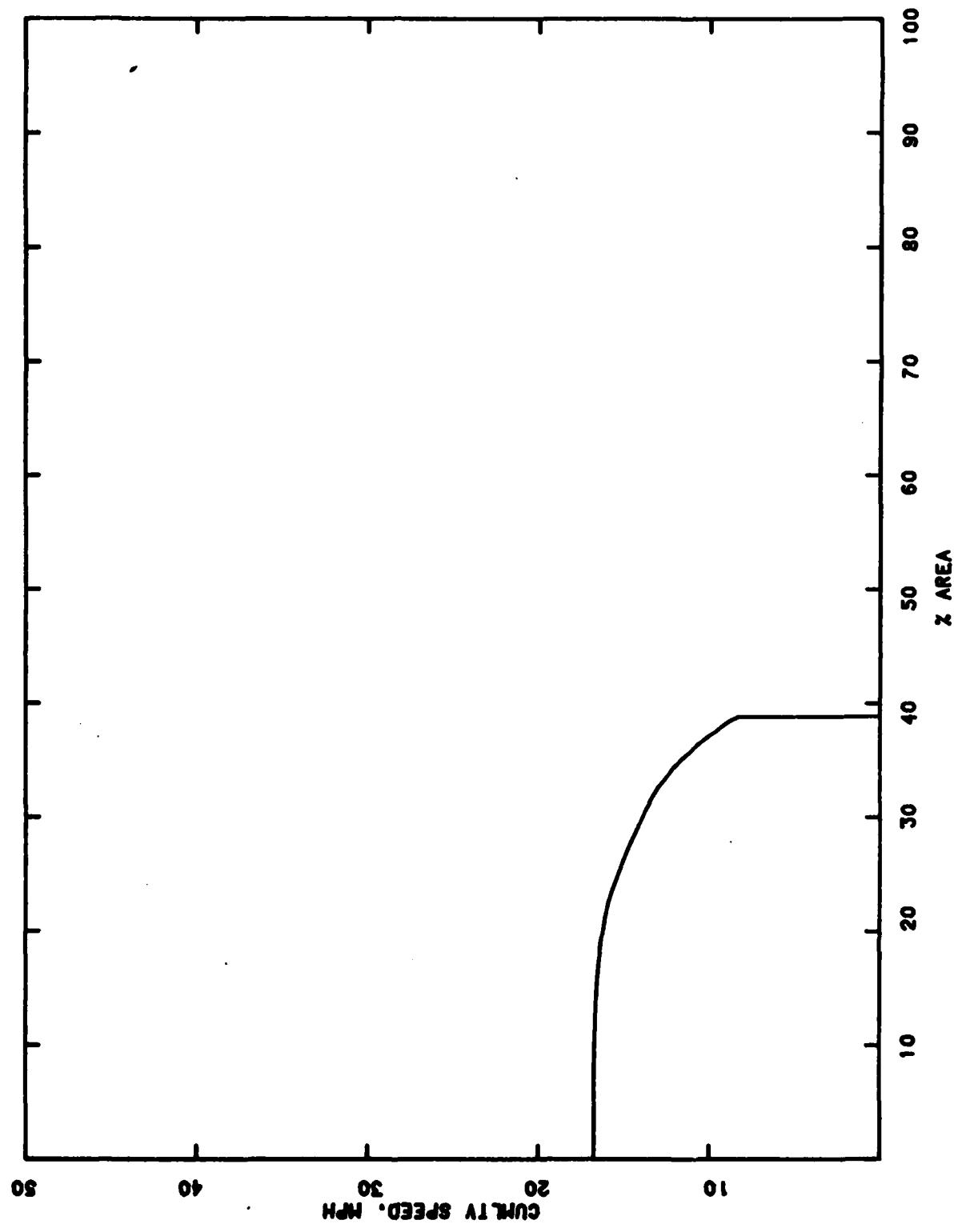
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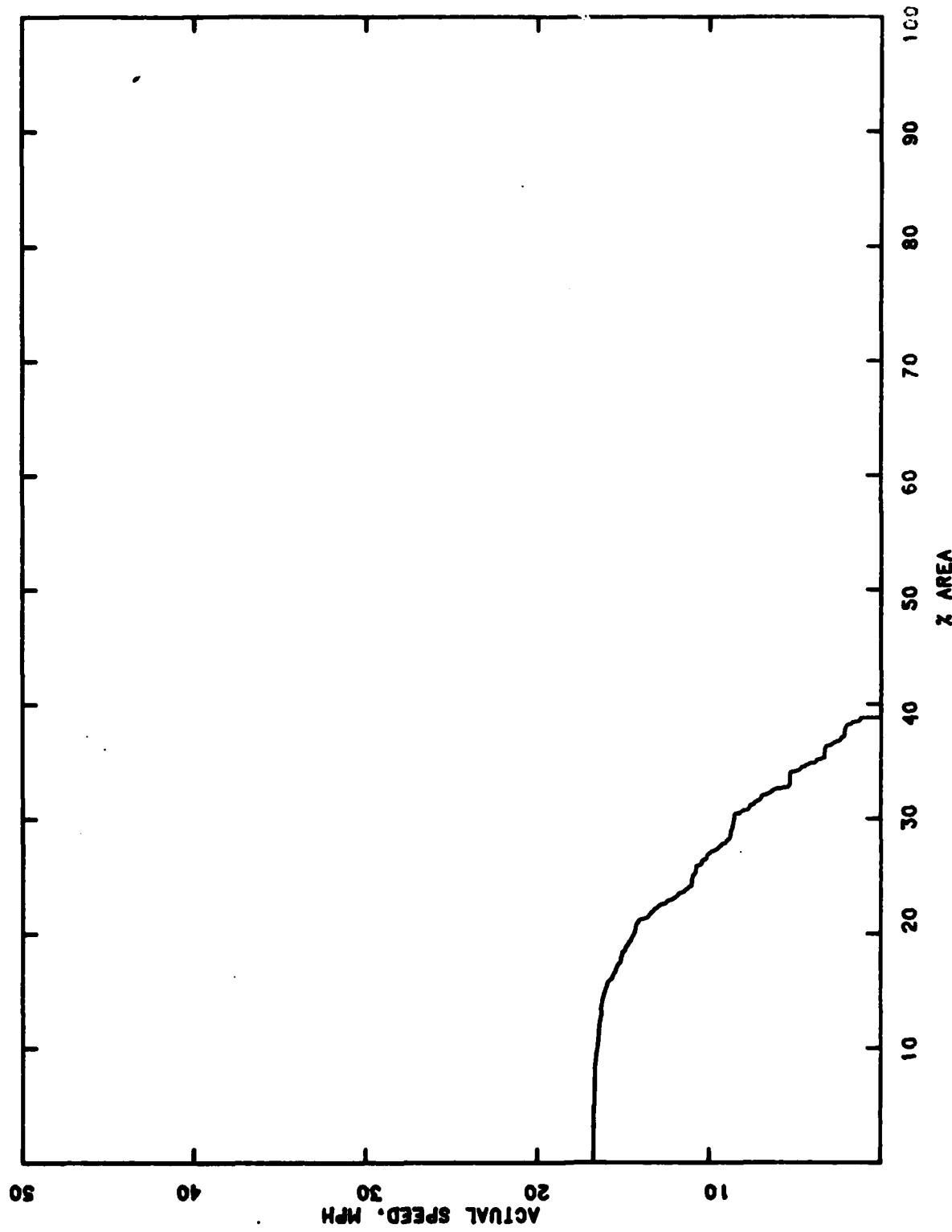
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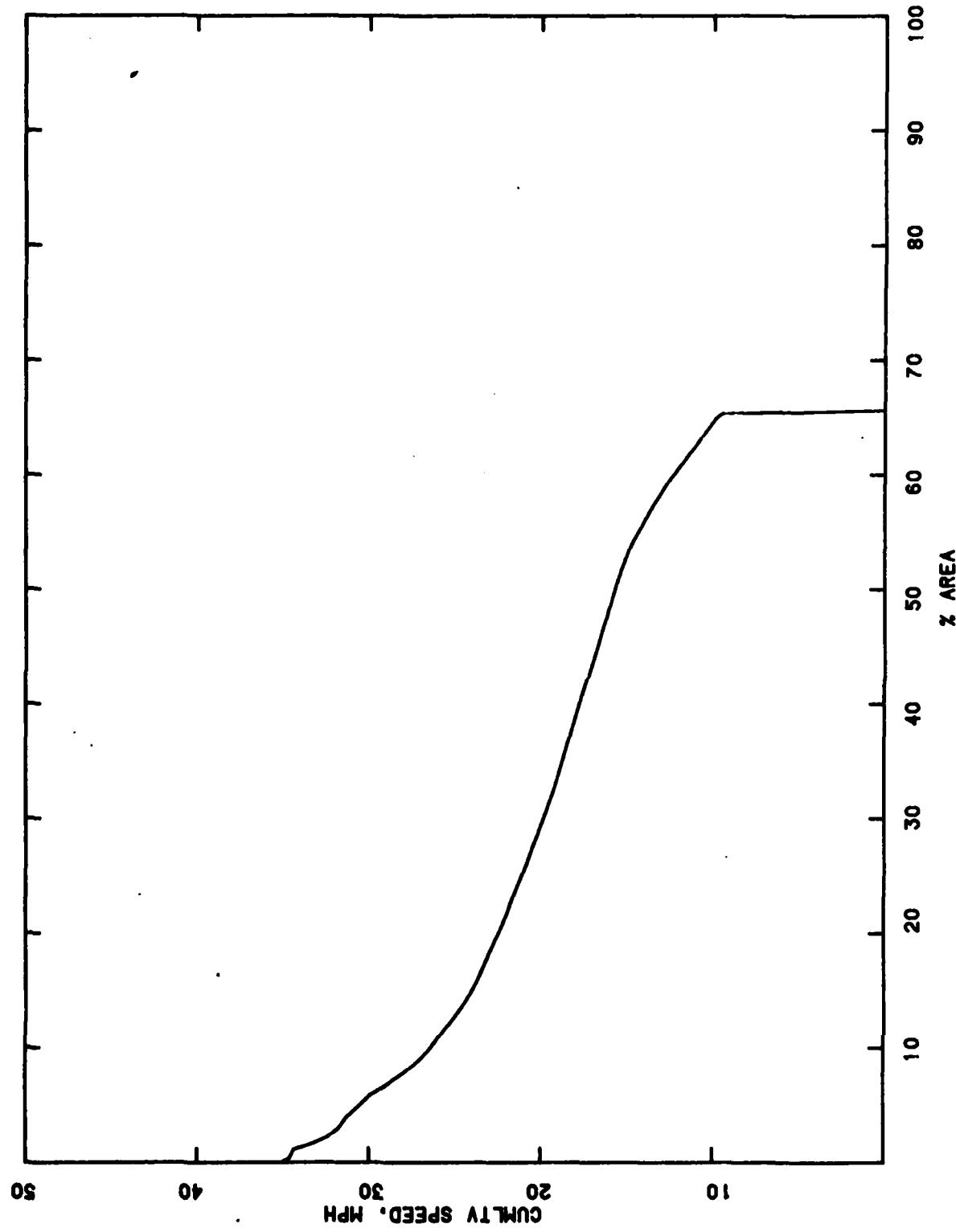
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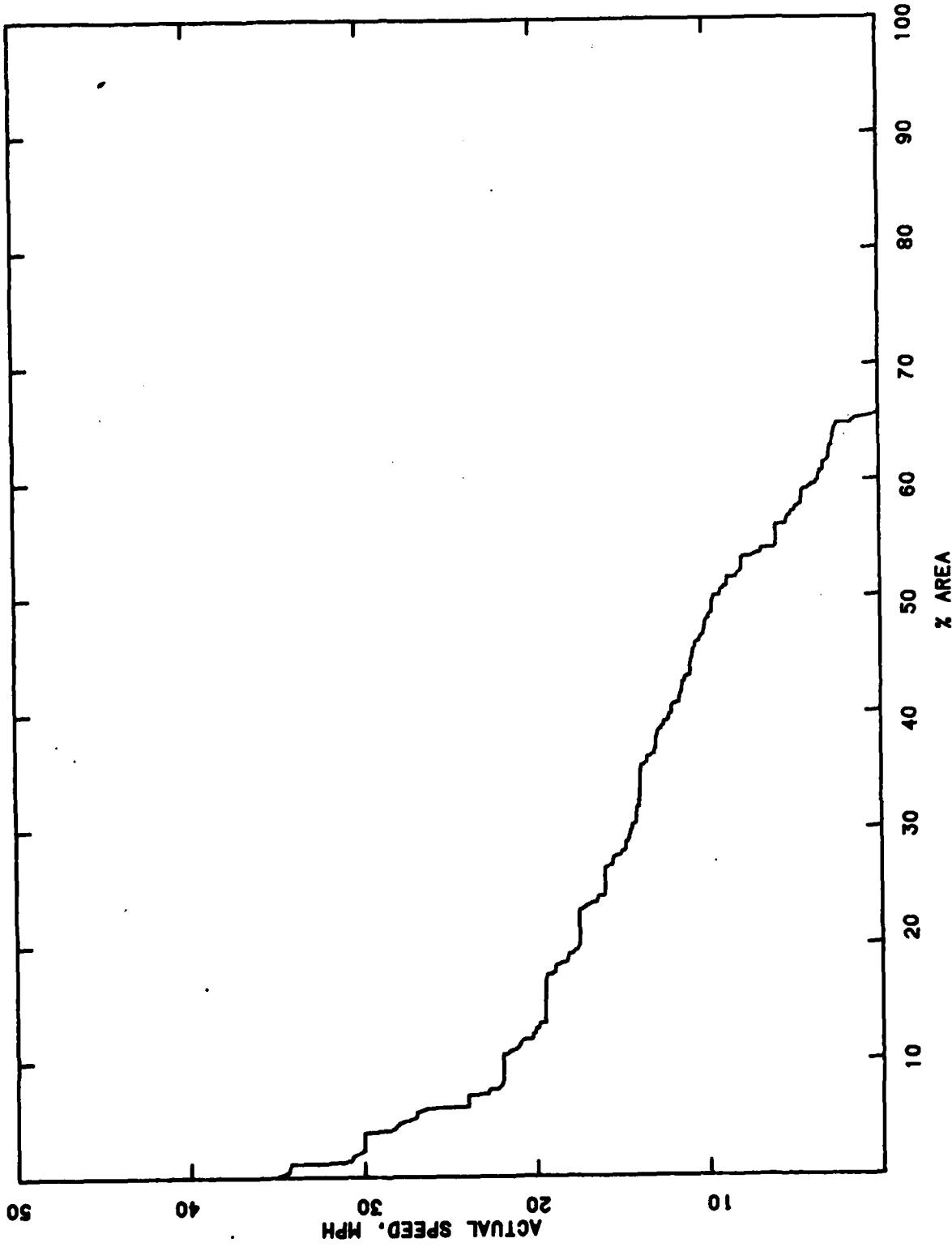
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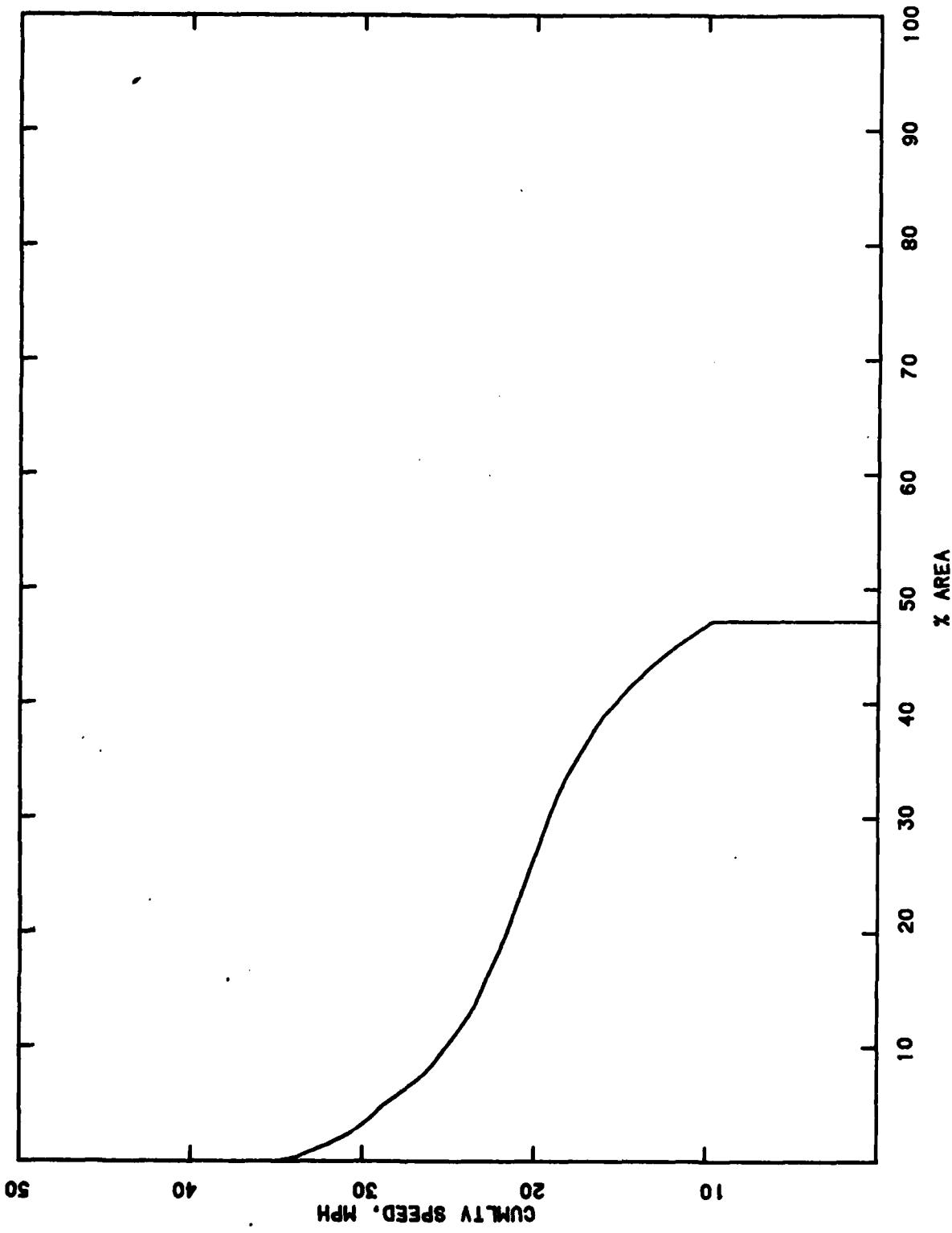
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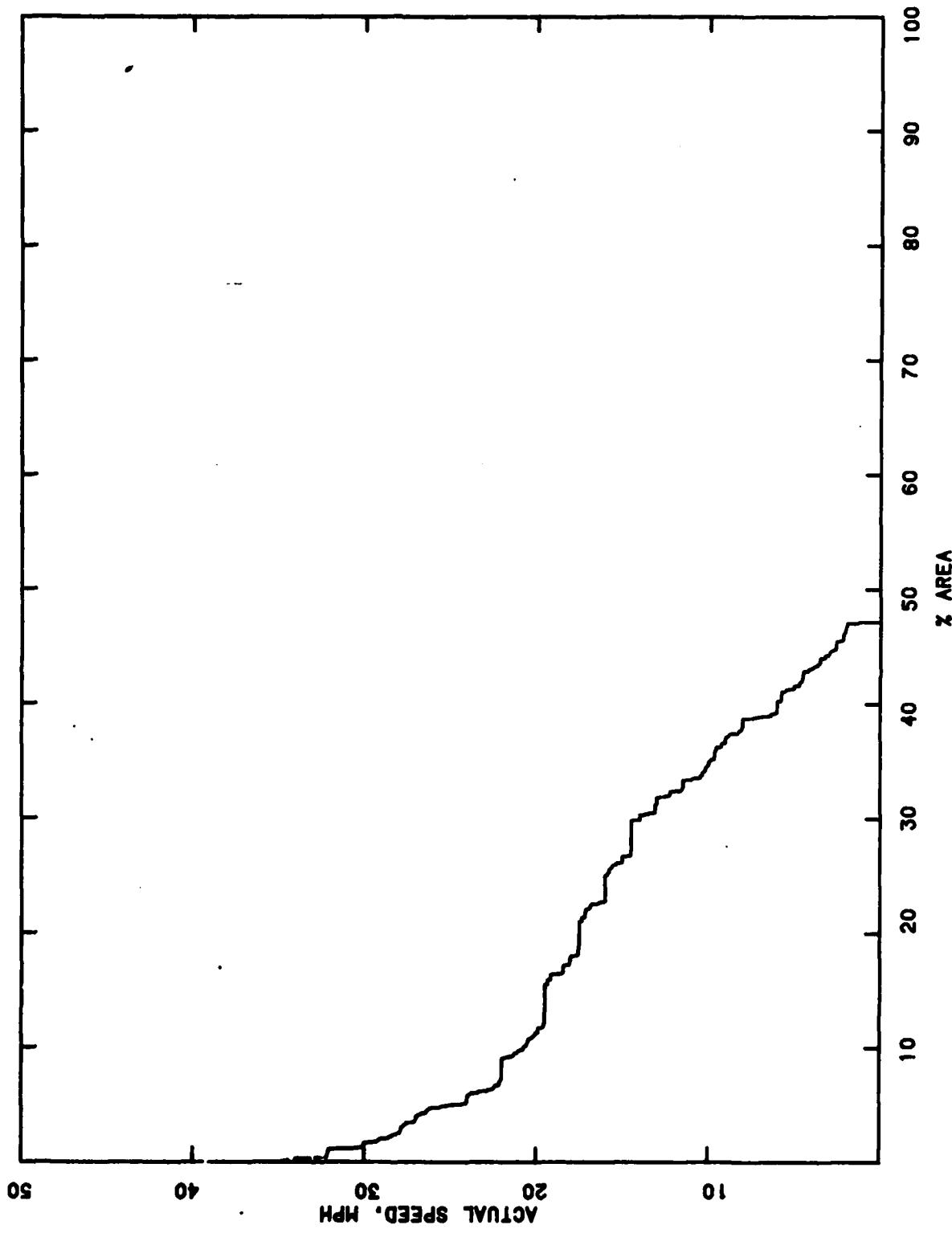
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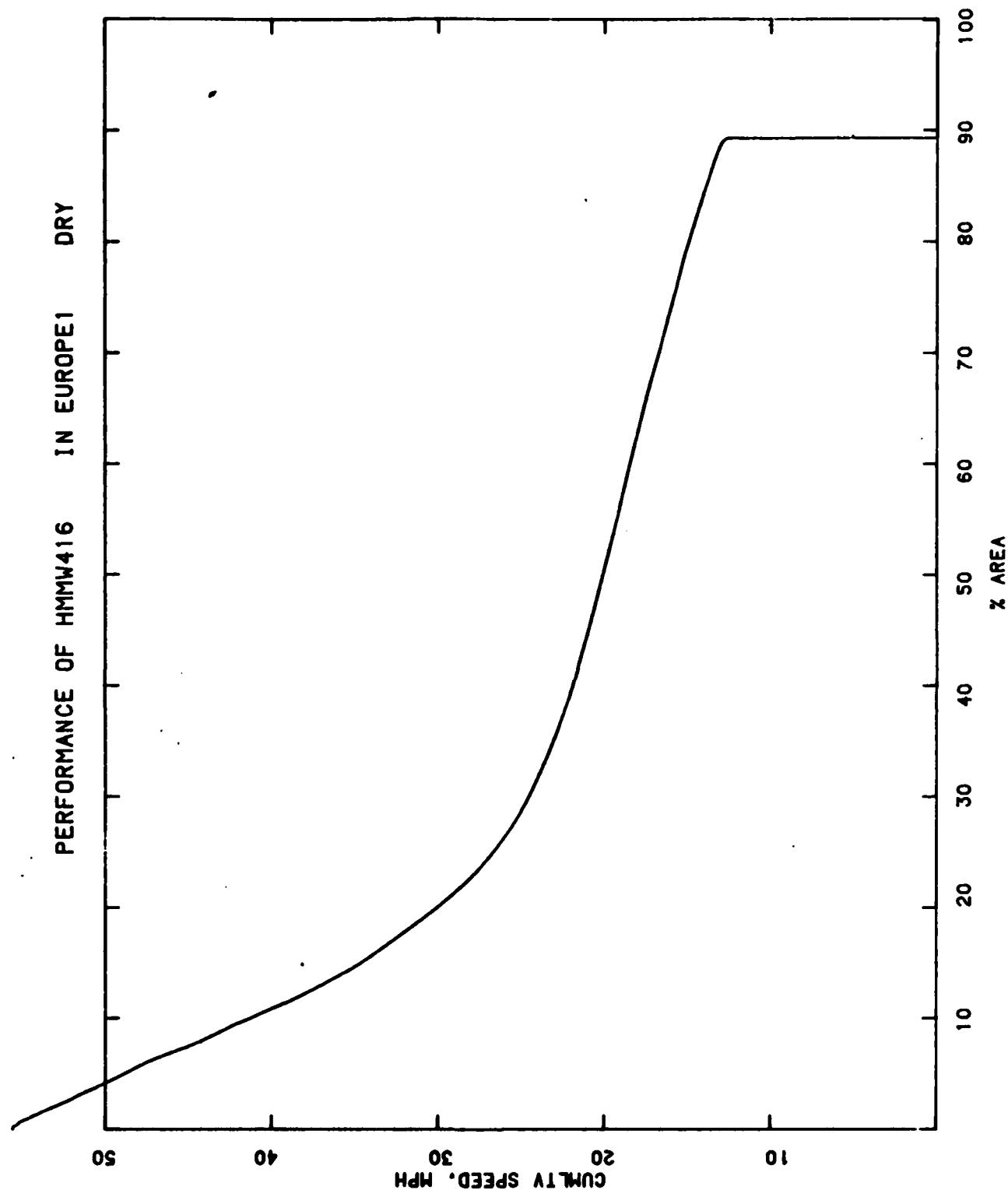
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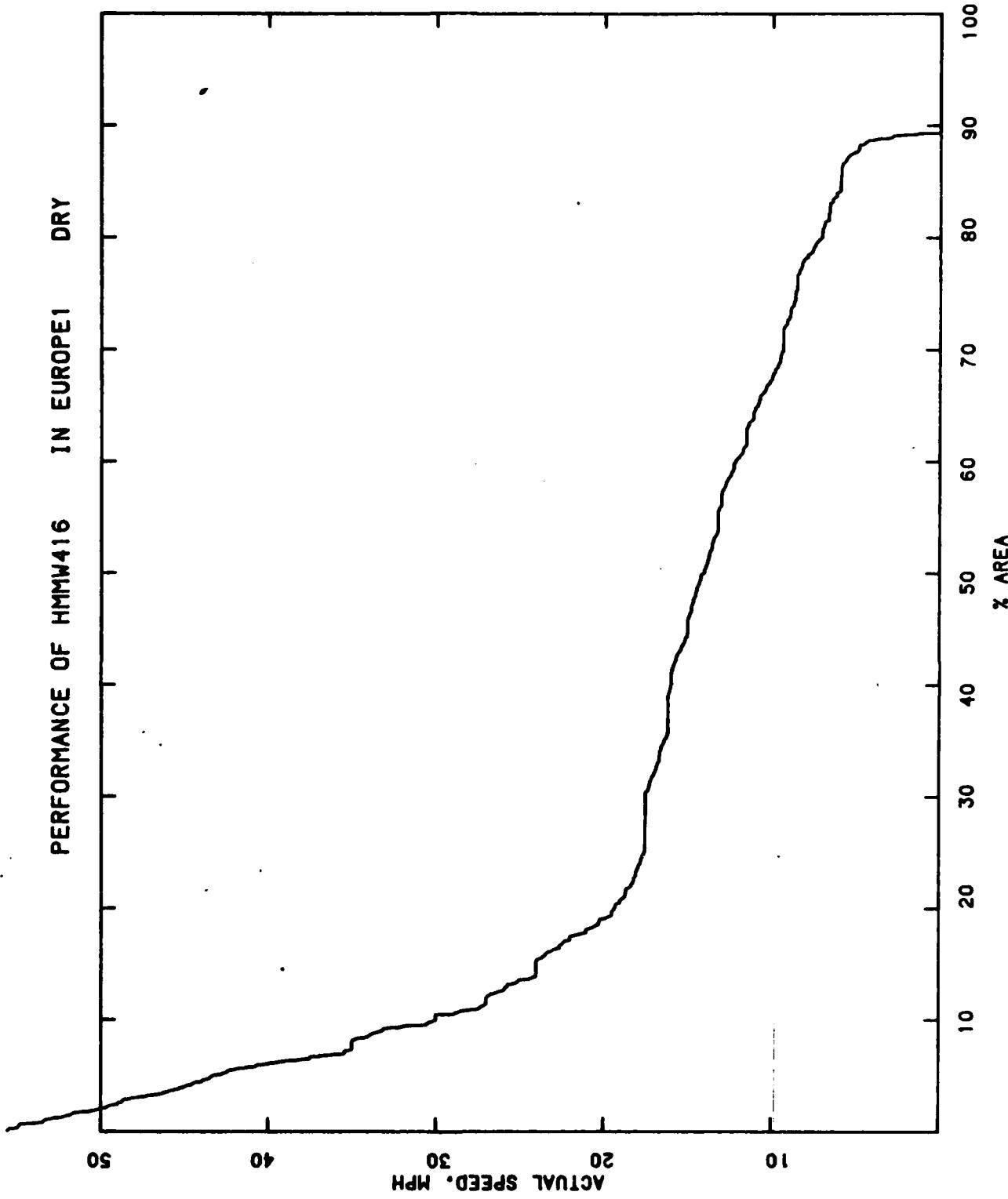
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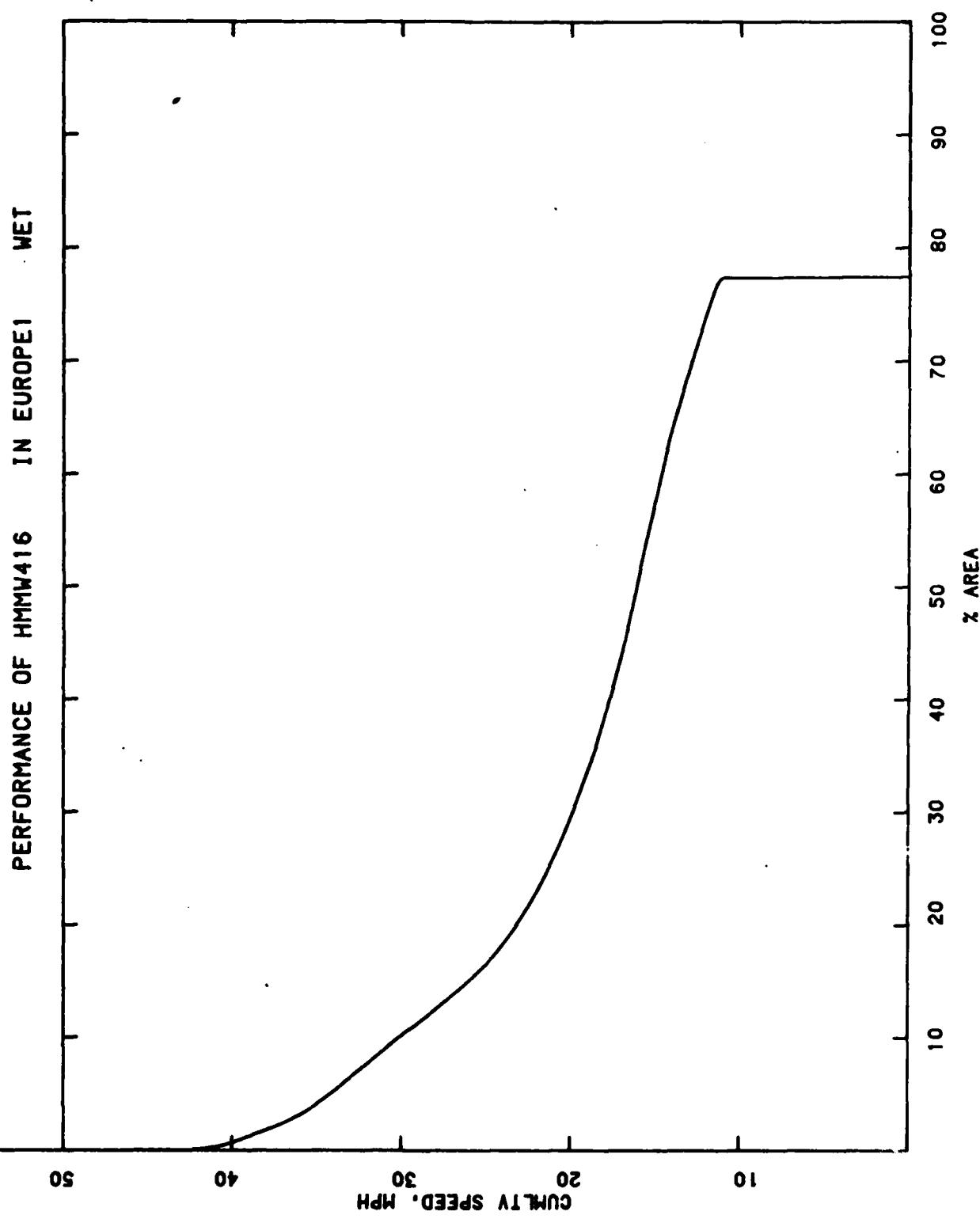


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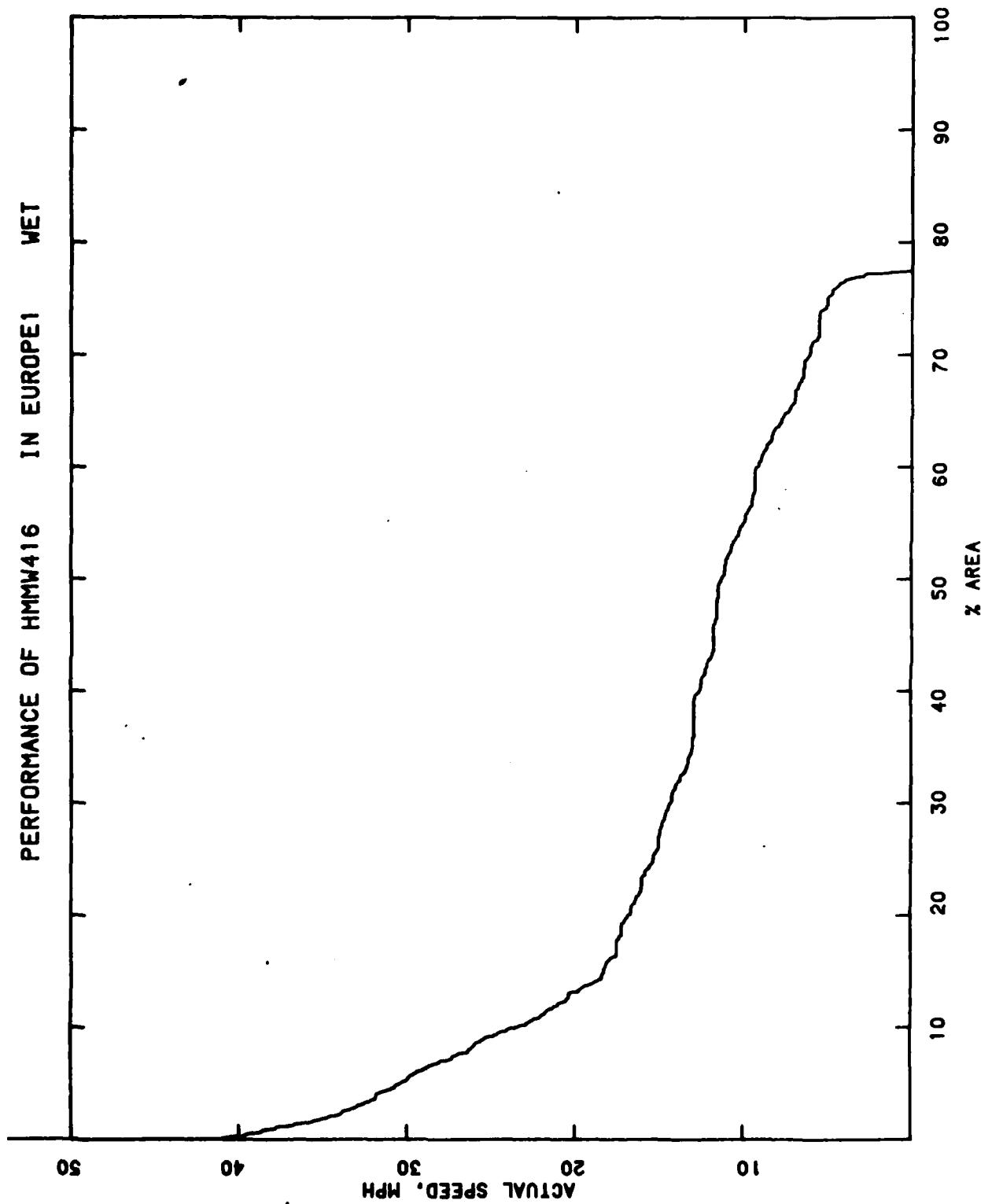


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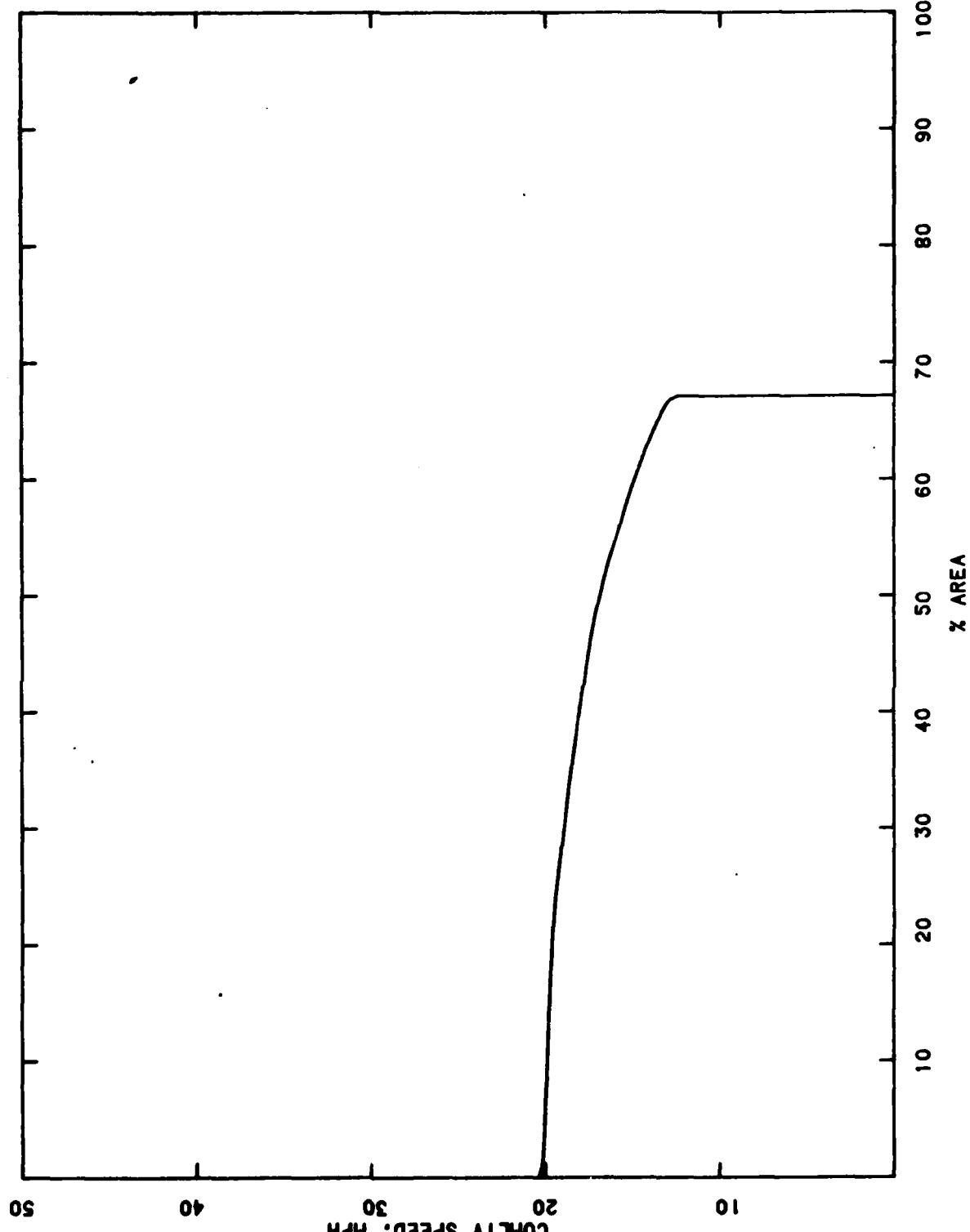




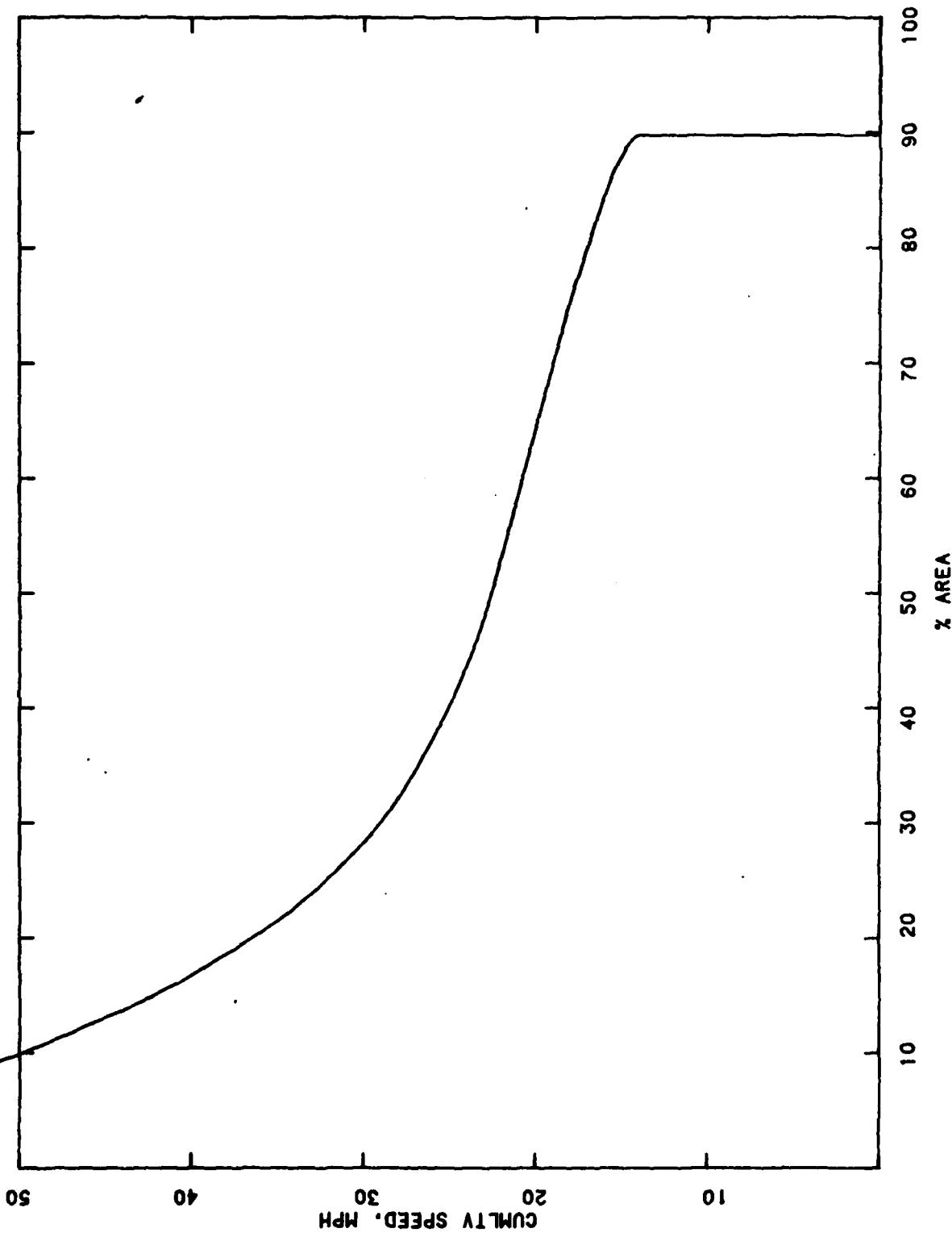
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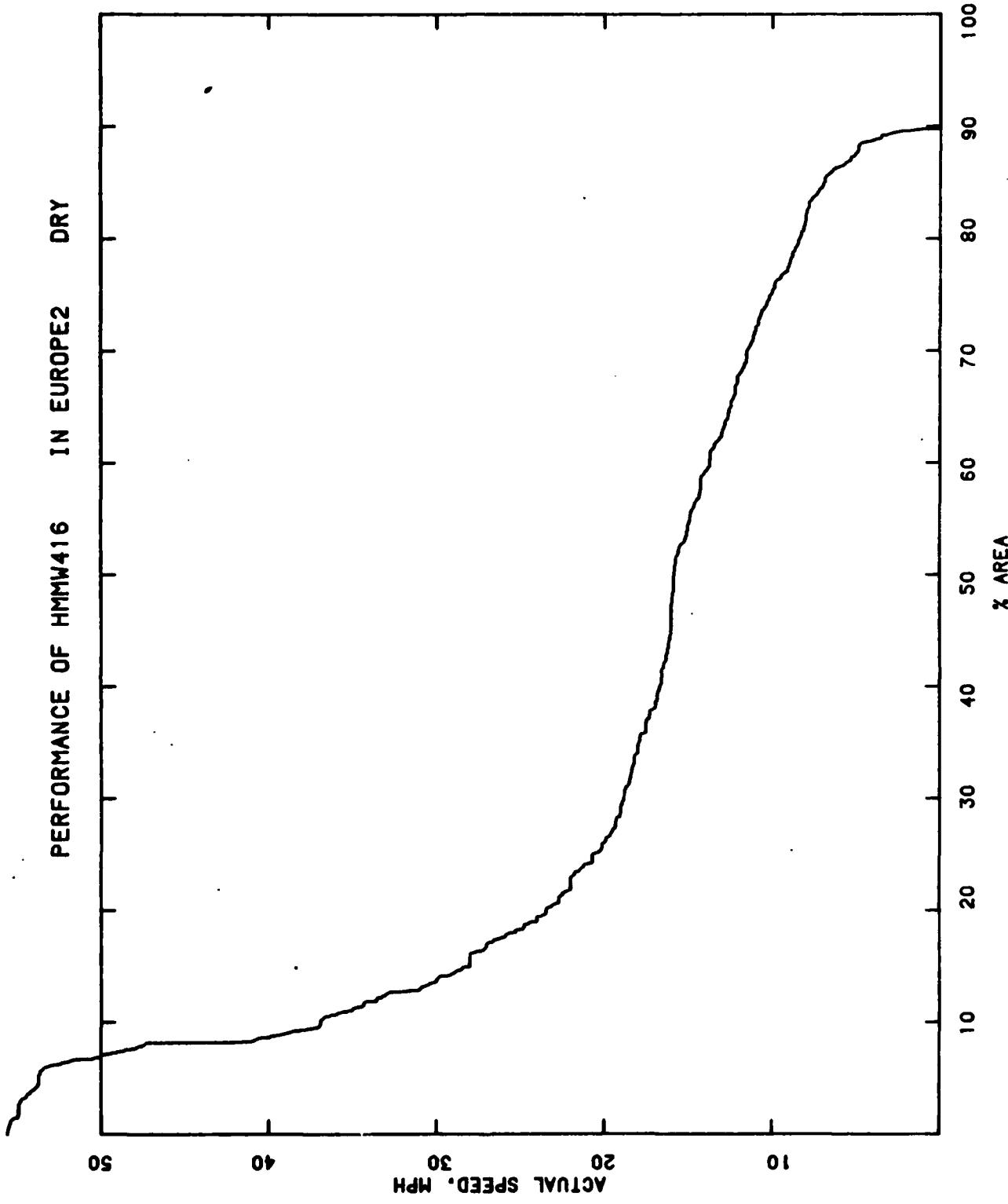
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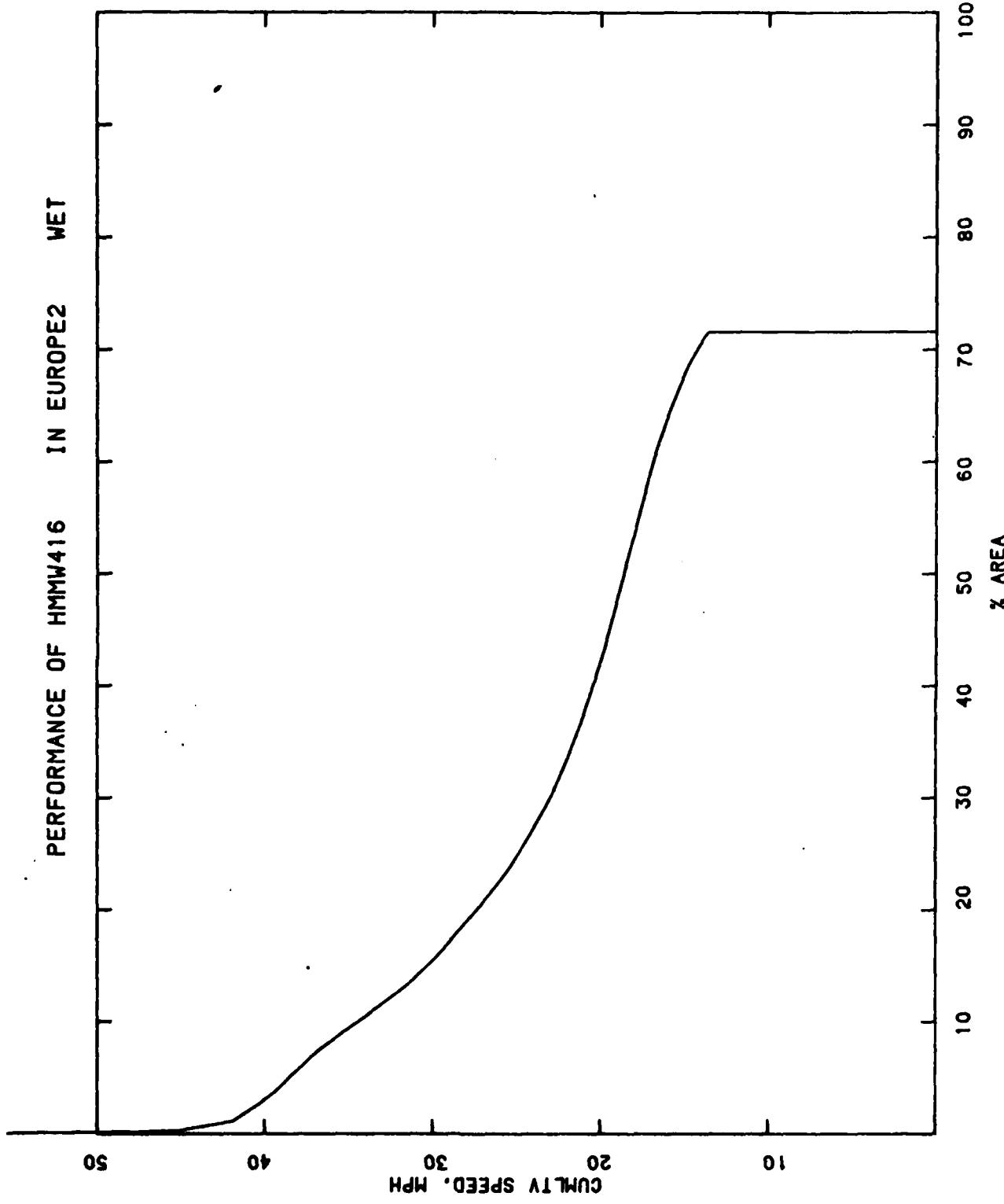
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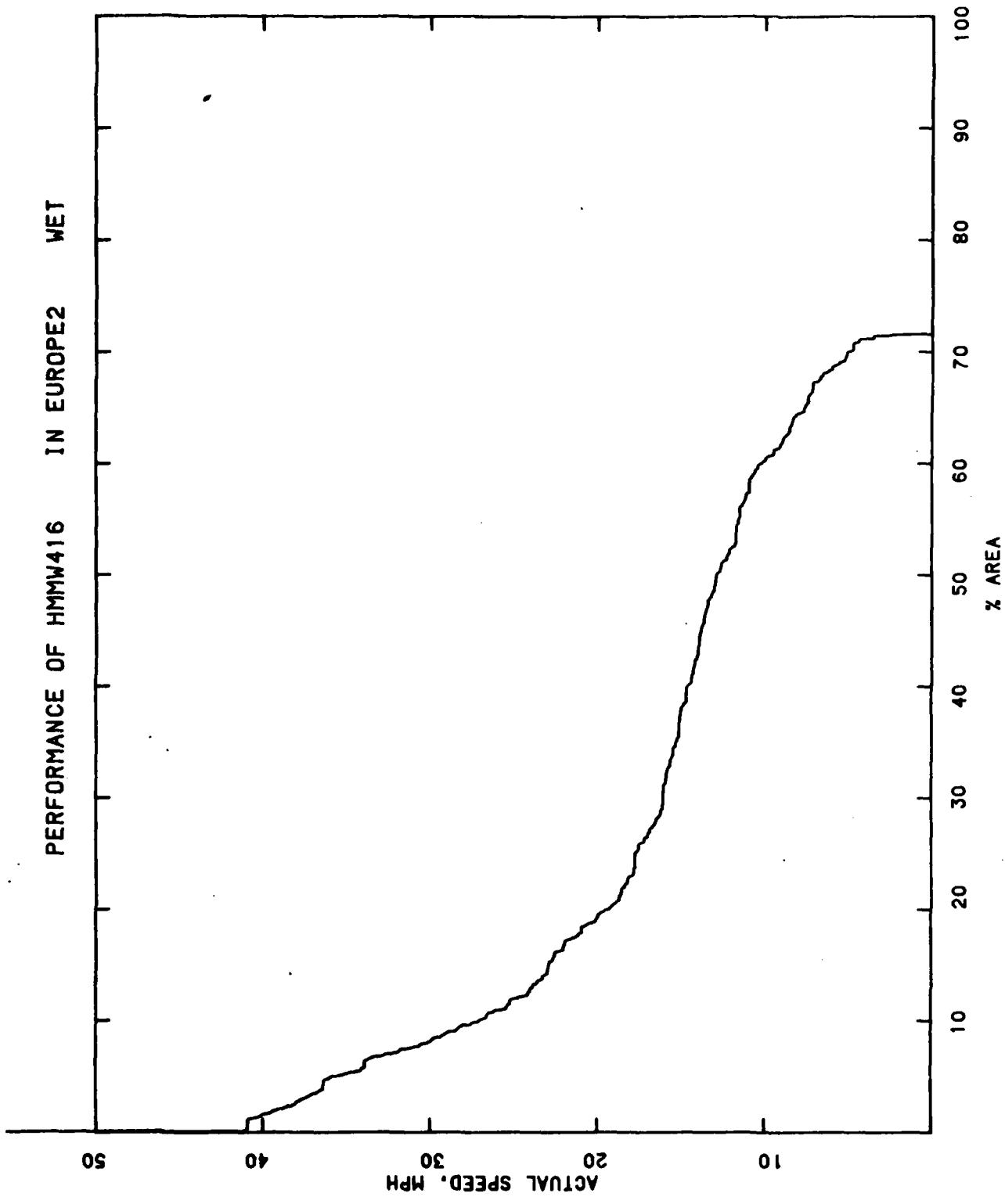
PERFORMANCE OF HMMW416 IN EUROPE2 DRY



PERFORMANCE OF HMMW416 IN EUROPE2 WET



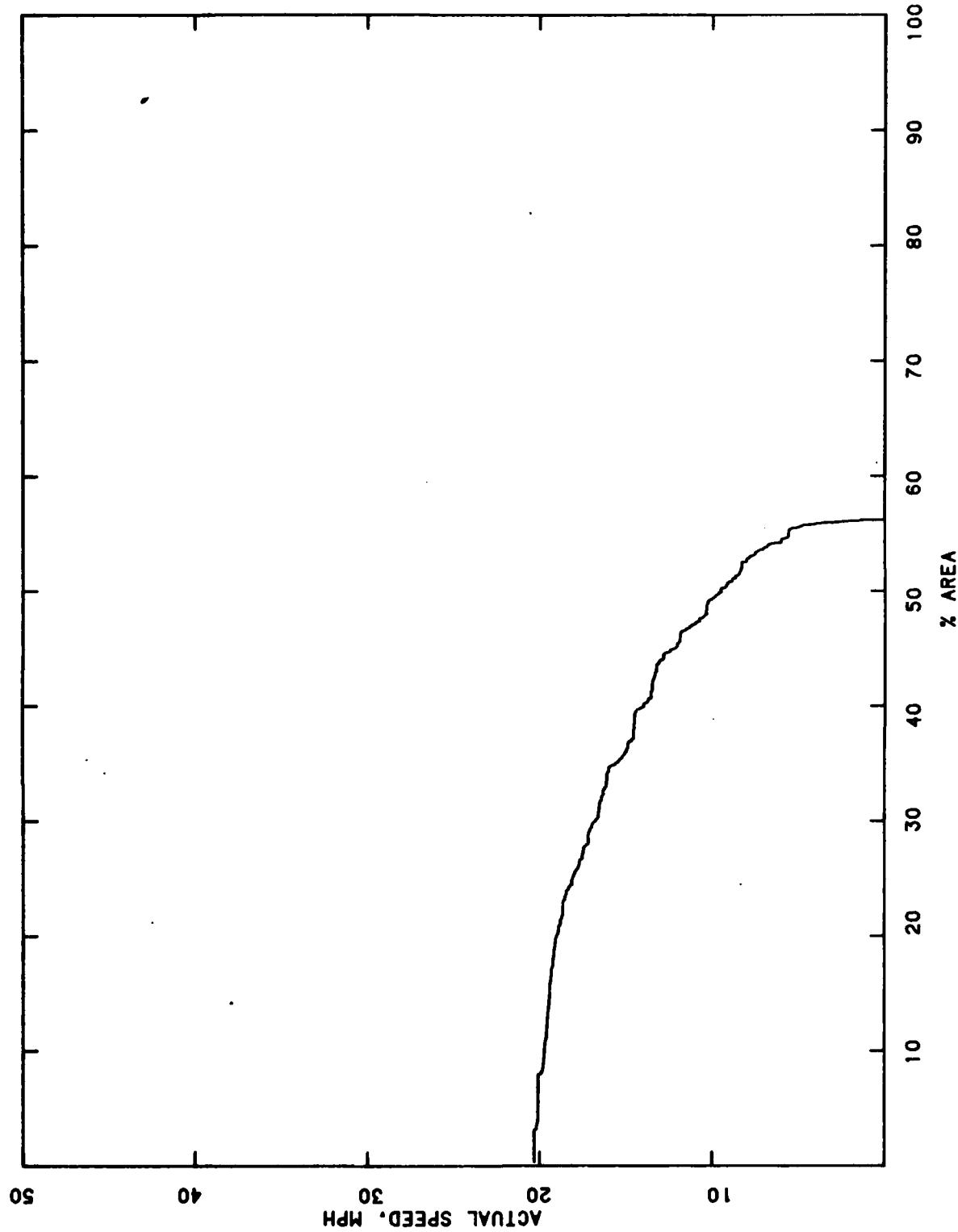
PERFORMANCE OF HMMW416 IN EUROPE2 WET



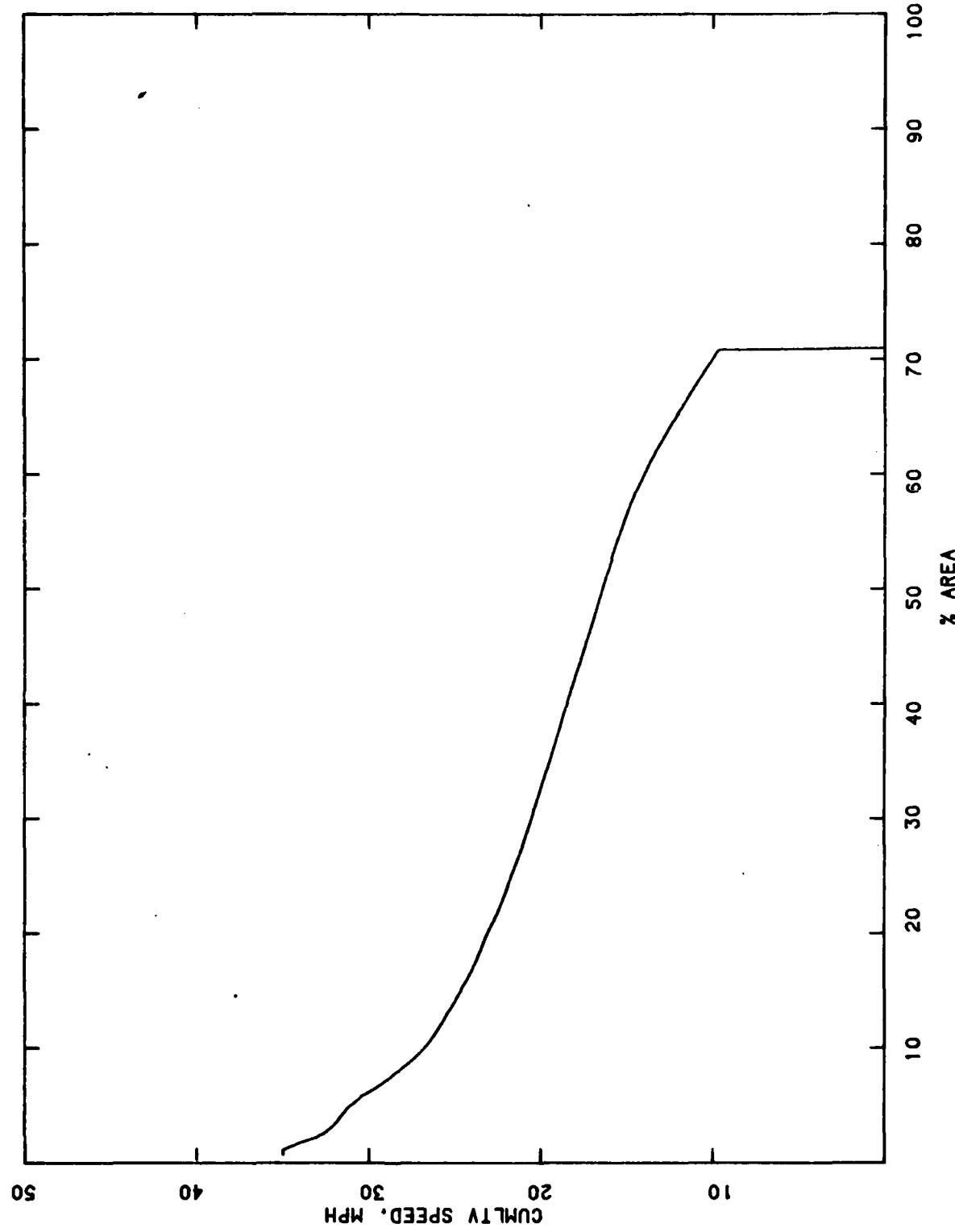
PERFORMANCE OF HMMW416 IN EUROPE2 SNOW

CUMLTV SPEED, MPH

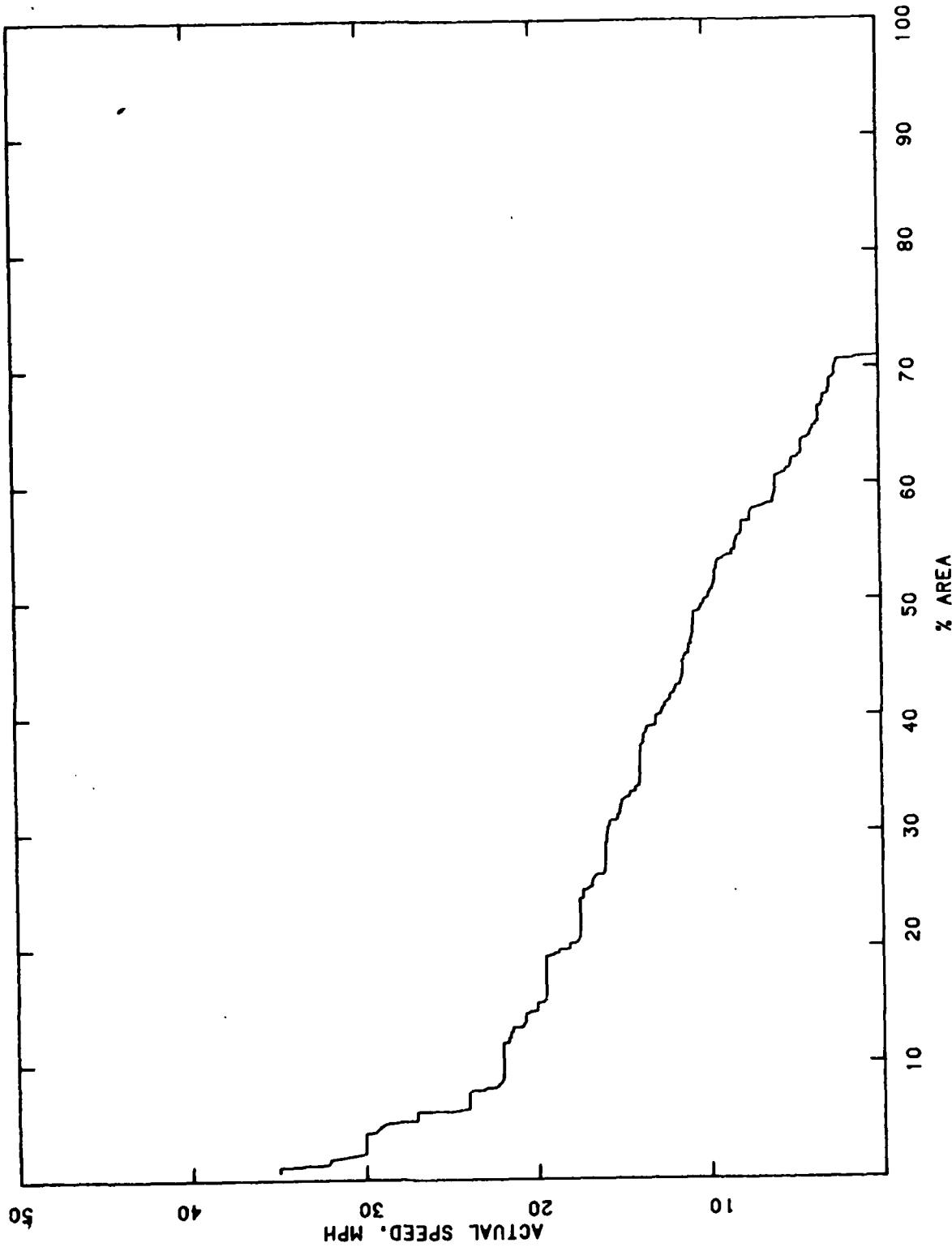
PERFORMANCE OF HMMW416 IN EUROPE2 SNOW



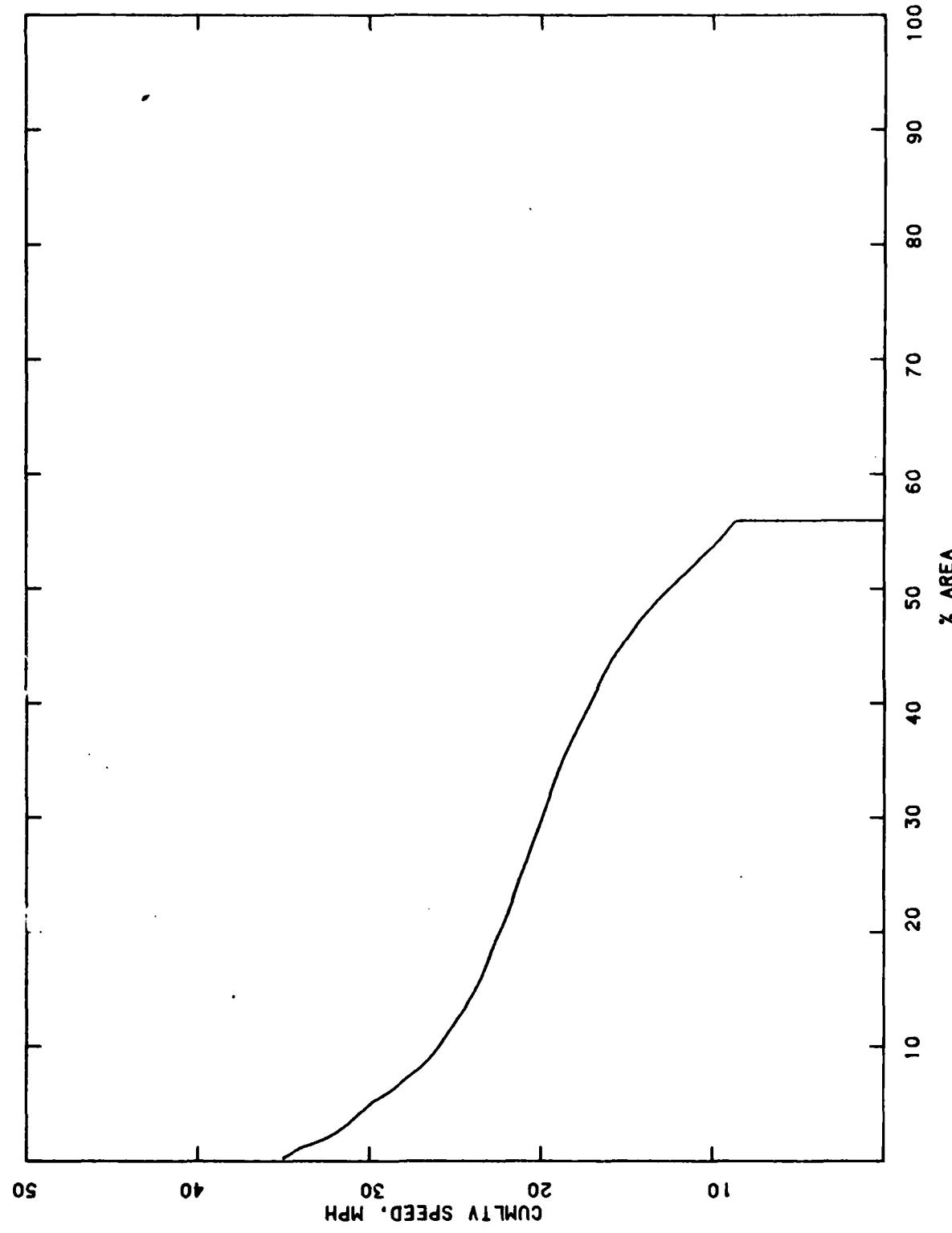
PERFORMANCE OF HMMW416 IN MIDEAST 1 DRY



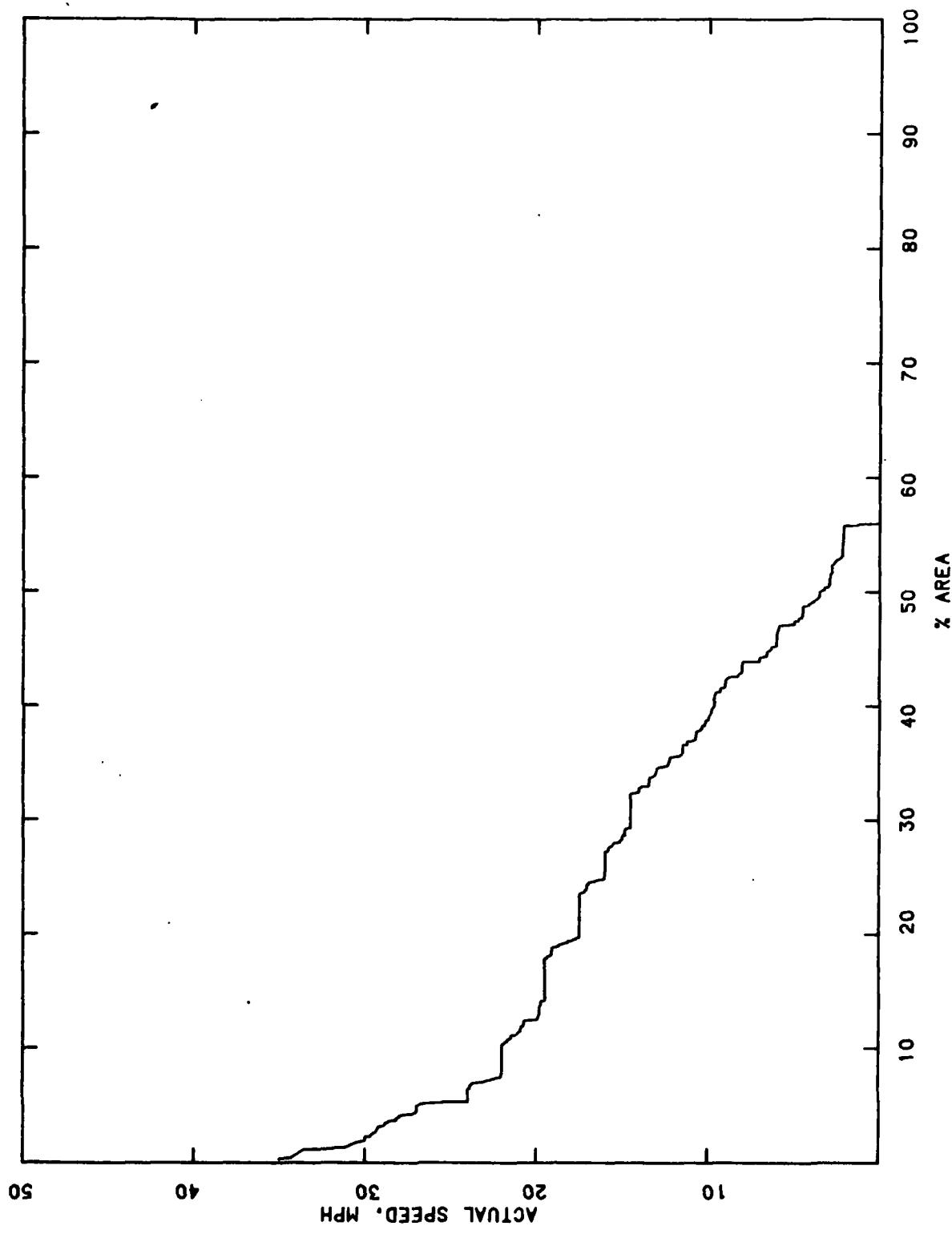
PERFORMANCE OF HMMW416 IN MIDEAST 1 DRY



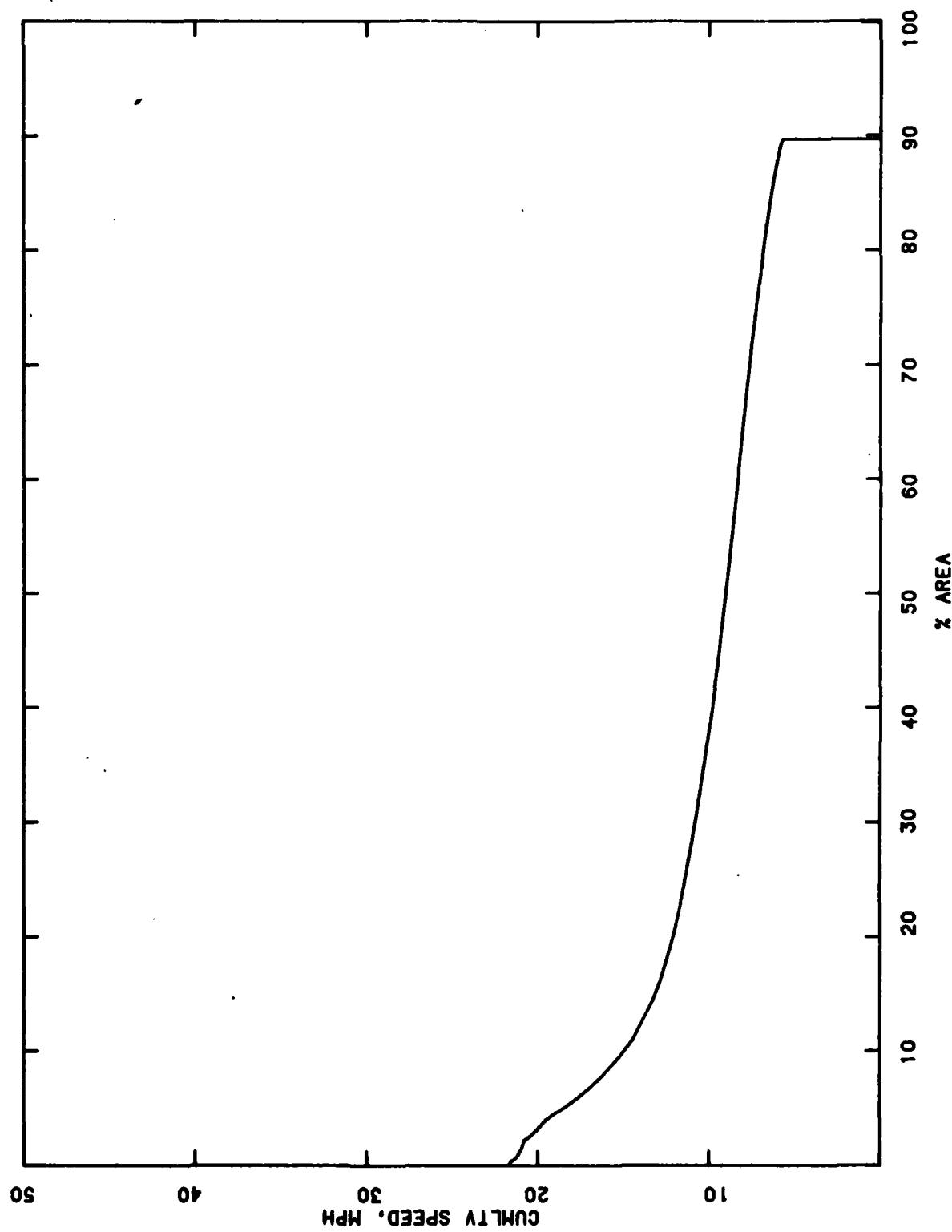
PERFORMANCE OF HMMW416 IN MIDEAST1 WET



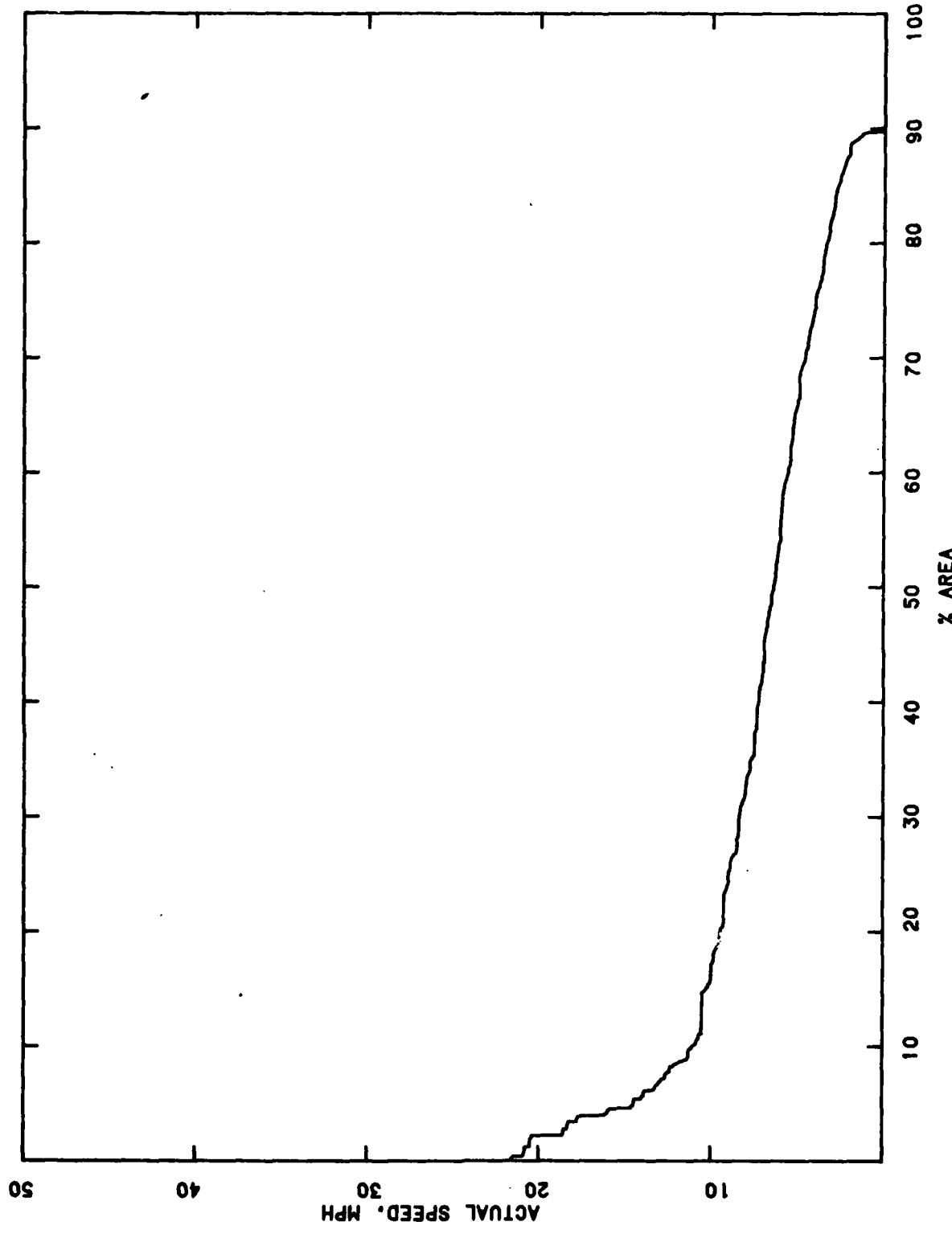
PERFORMANCE OF HMMW416 IN MIDEAST1 WET



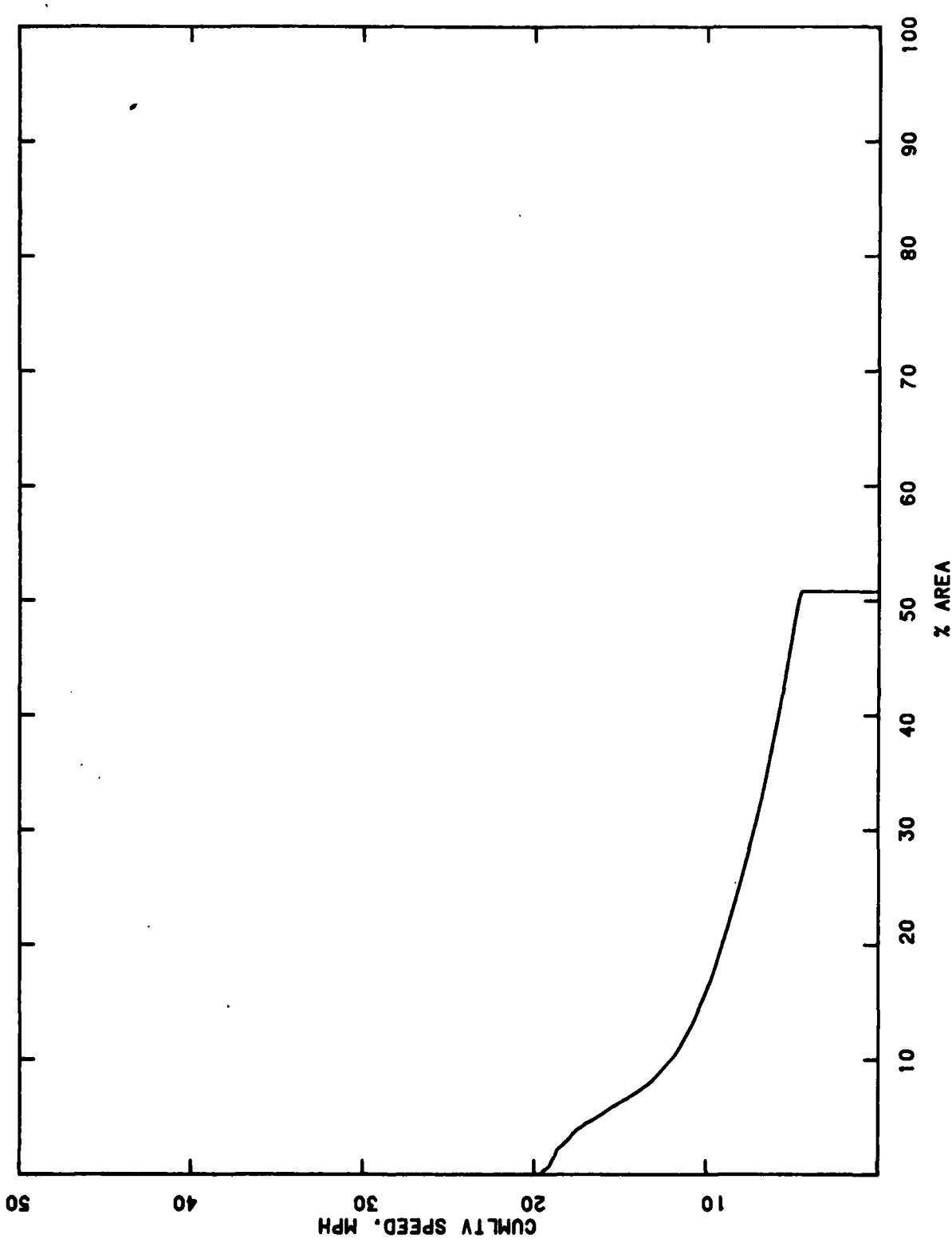
PERFORMANCE OF M559 IN EUROPE1 DRY

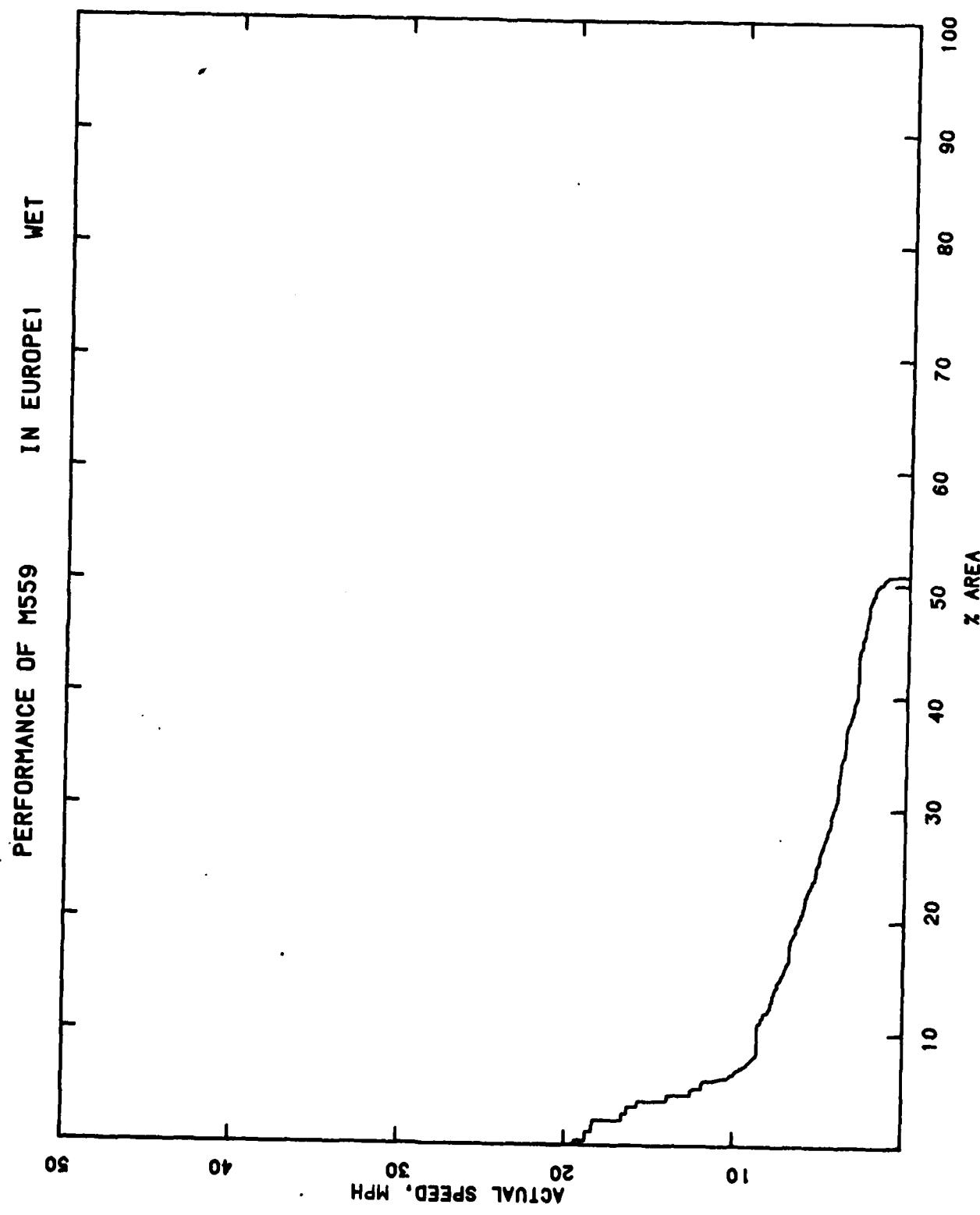


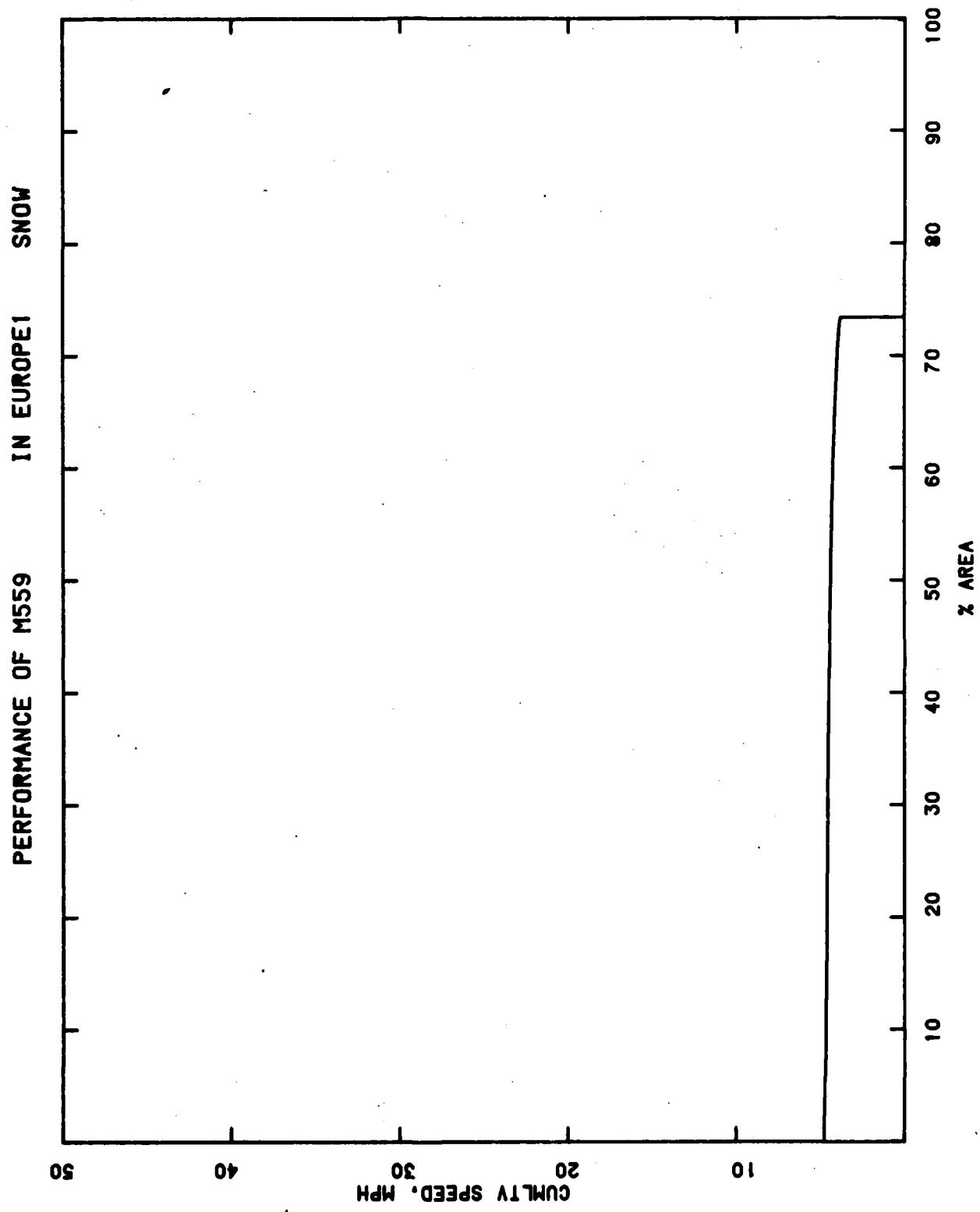
PERFORMANCE OF M559 IN EUROPE I DRY



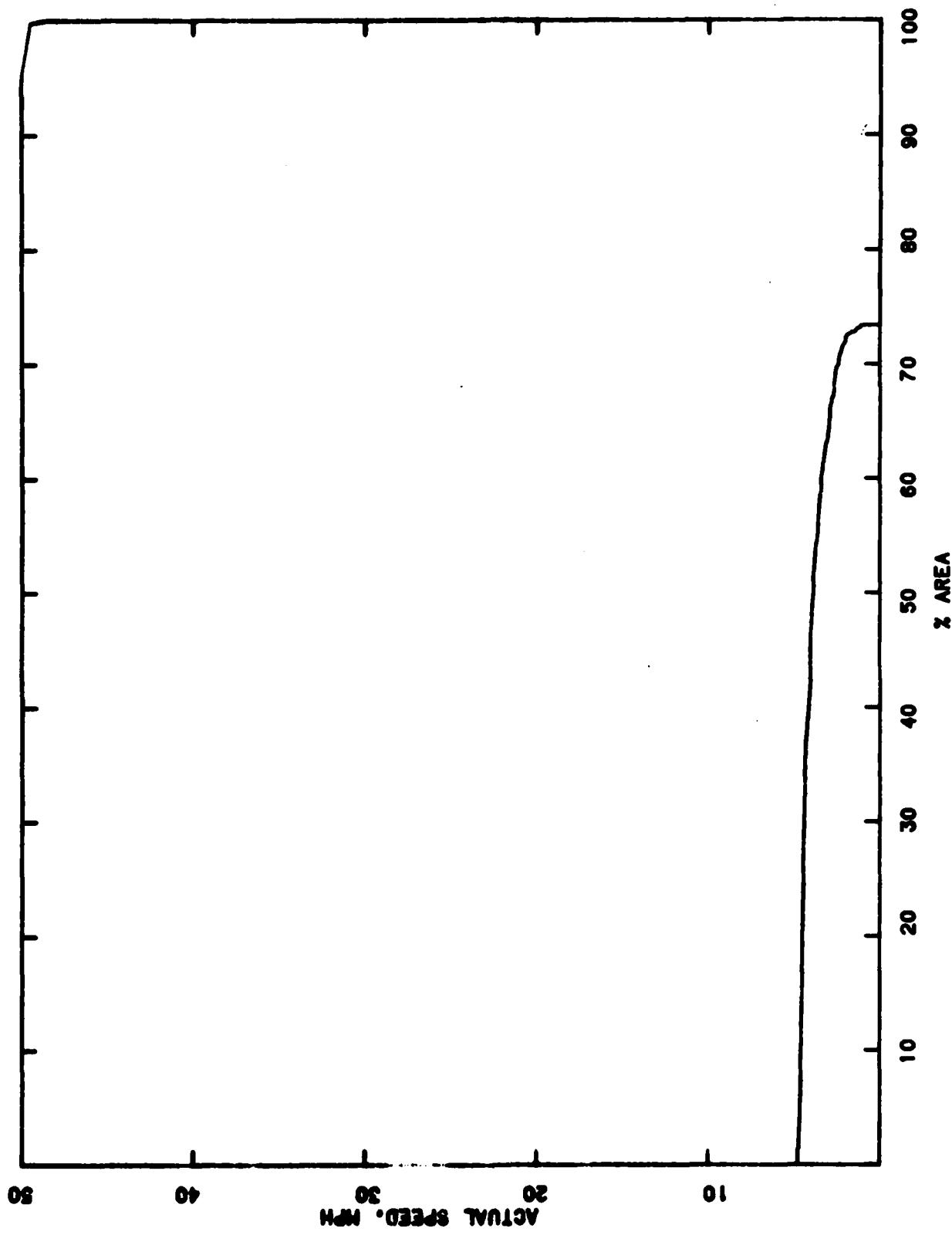
PERFORMANCE OF M559 IN EUROPE 1 WET



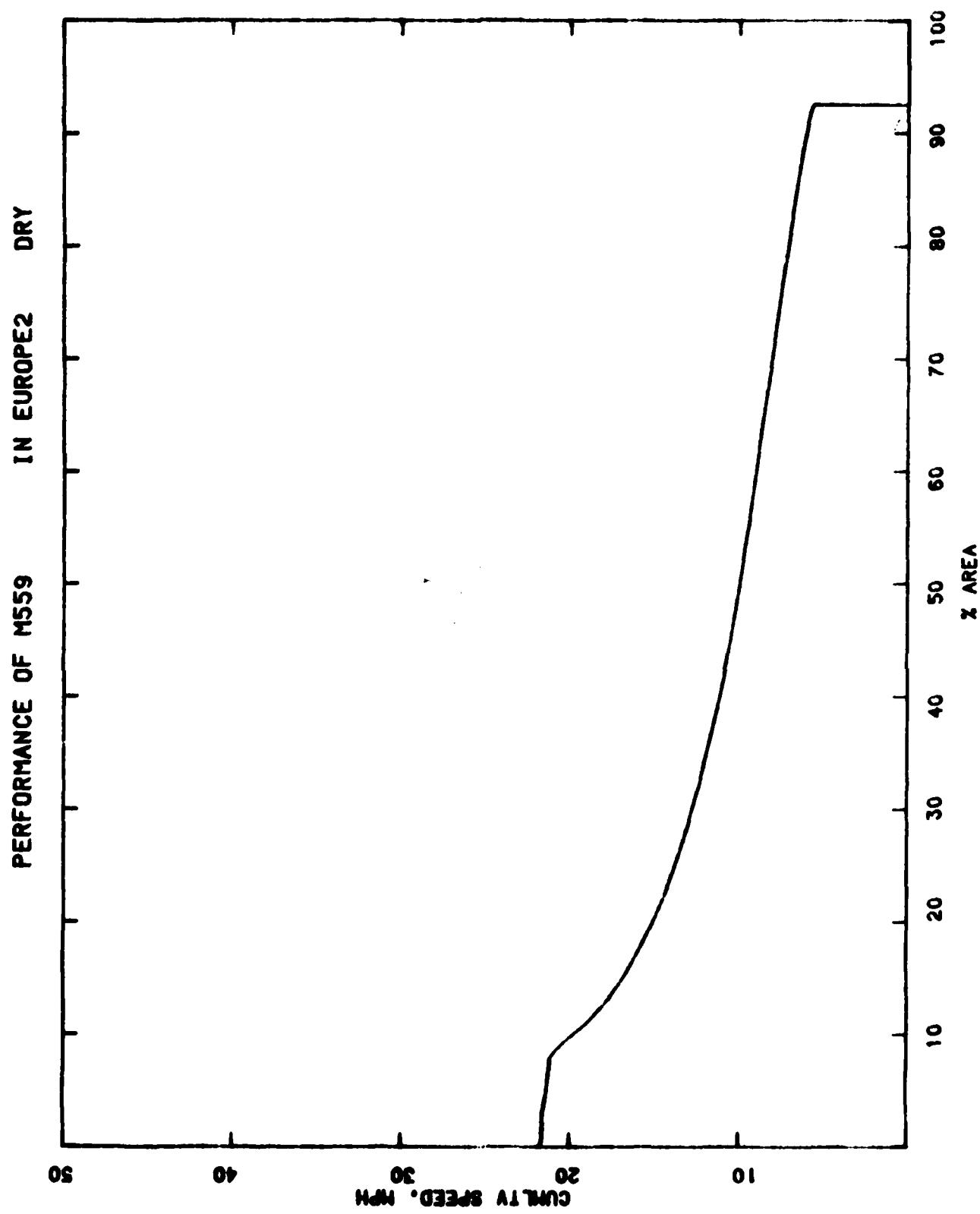




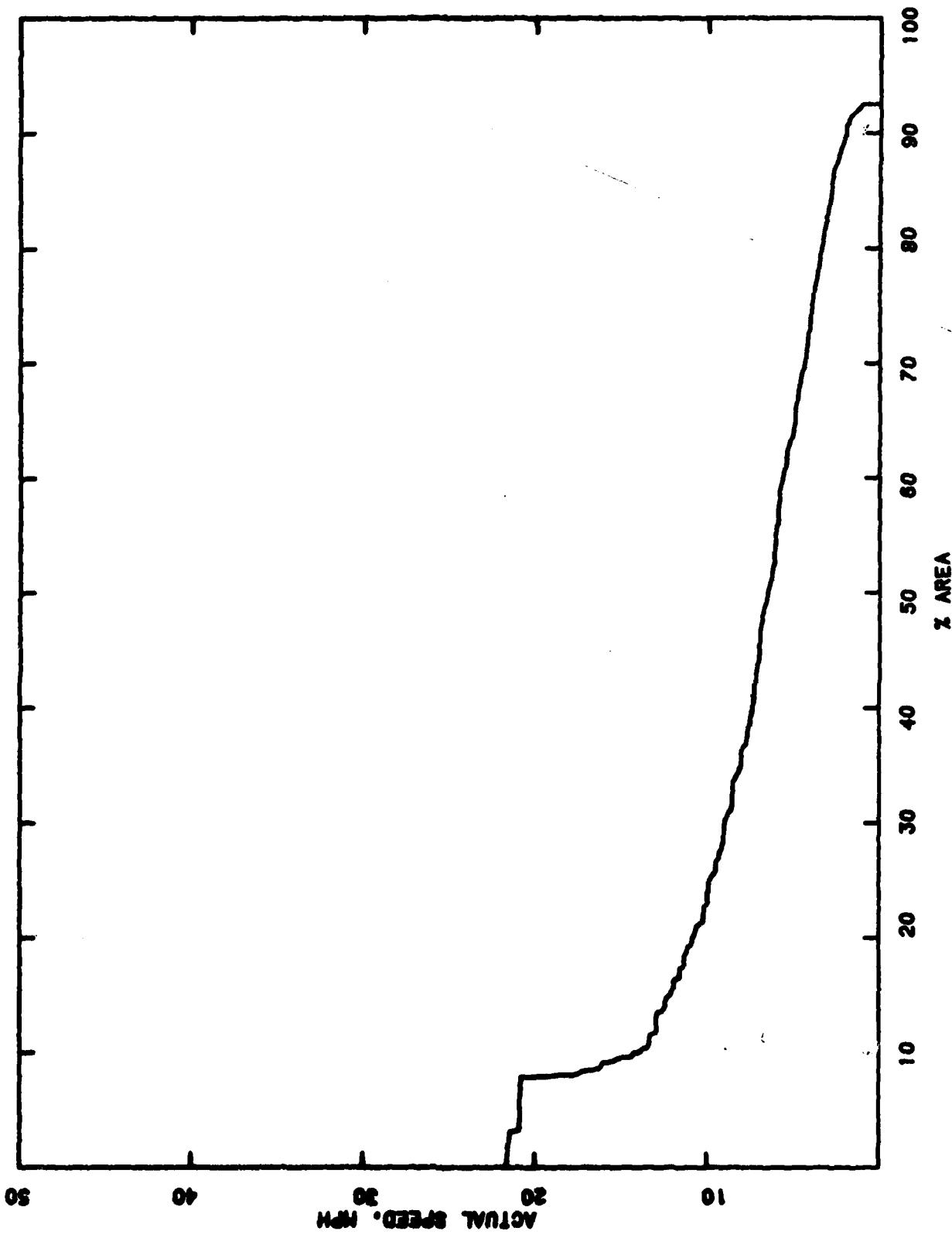
PERFORMANCE OF H559 IN EUROPE 1 SNOW



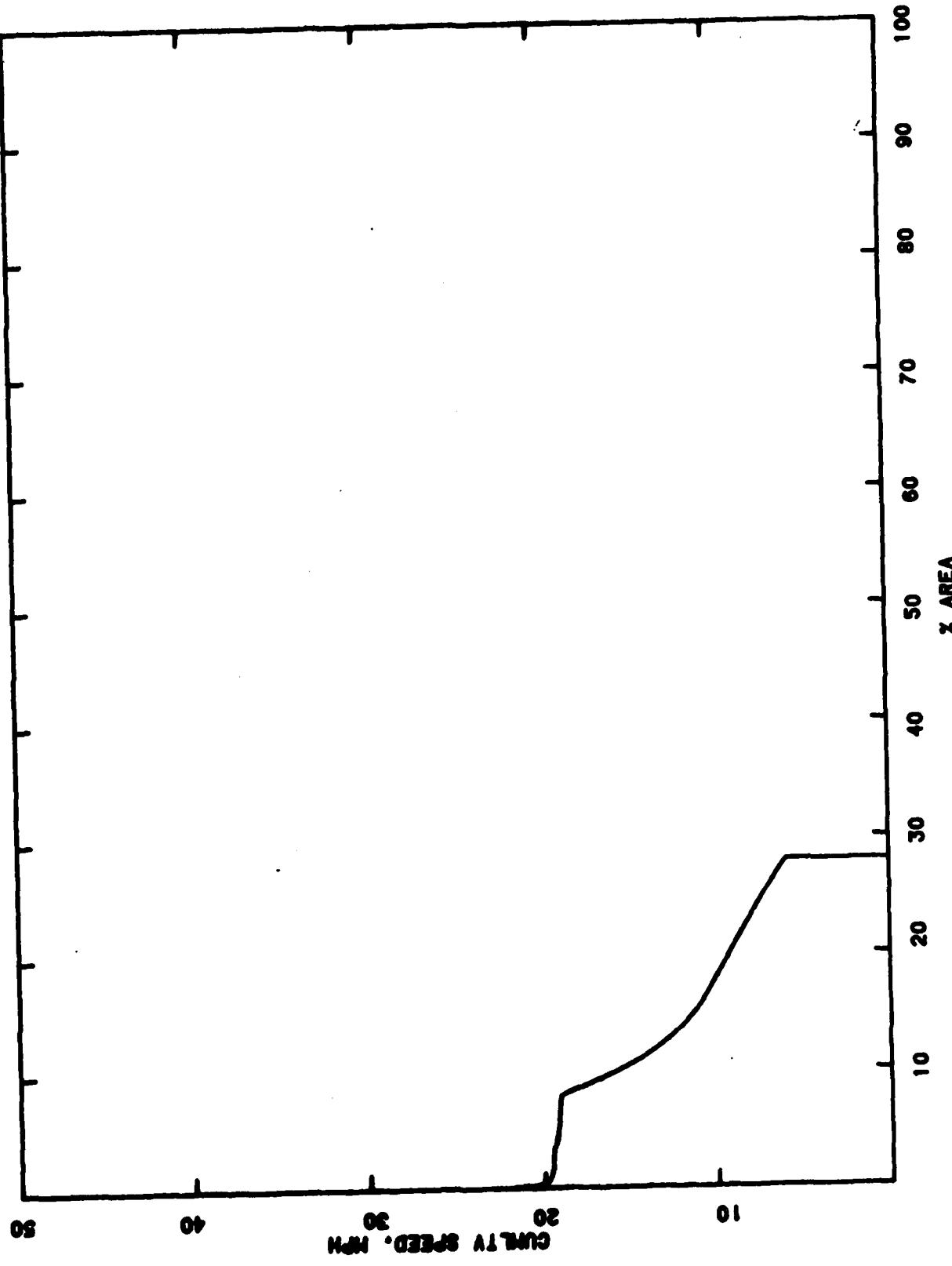
88

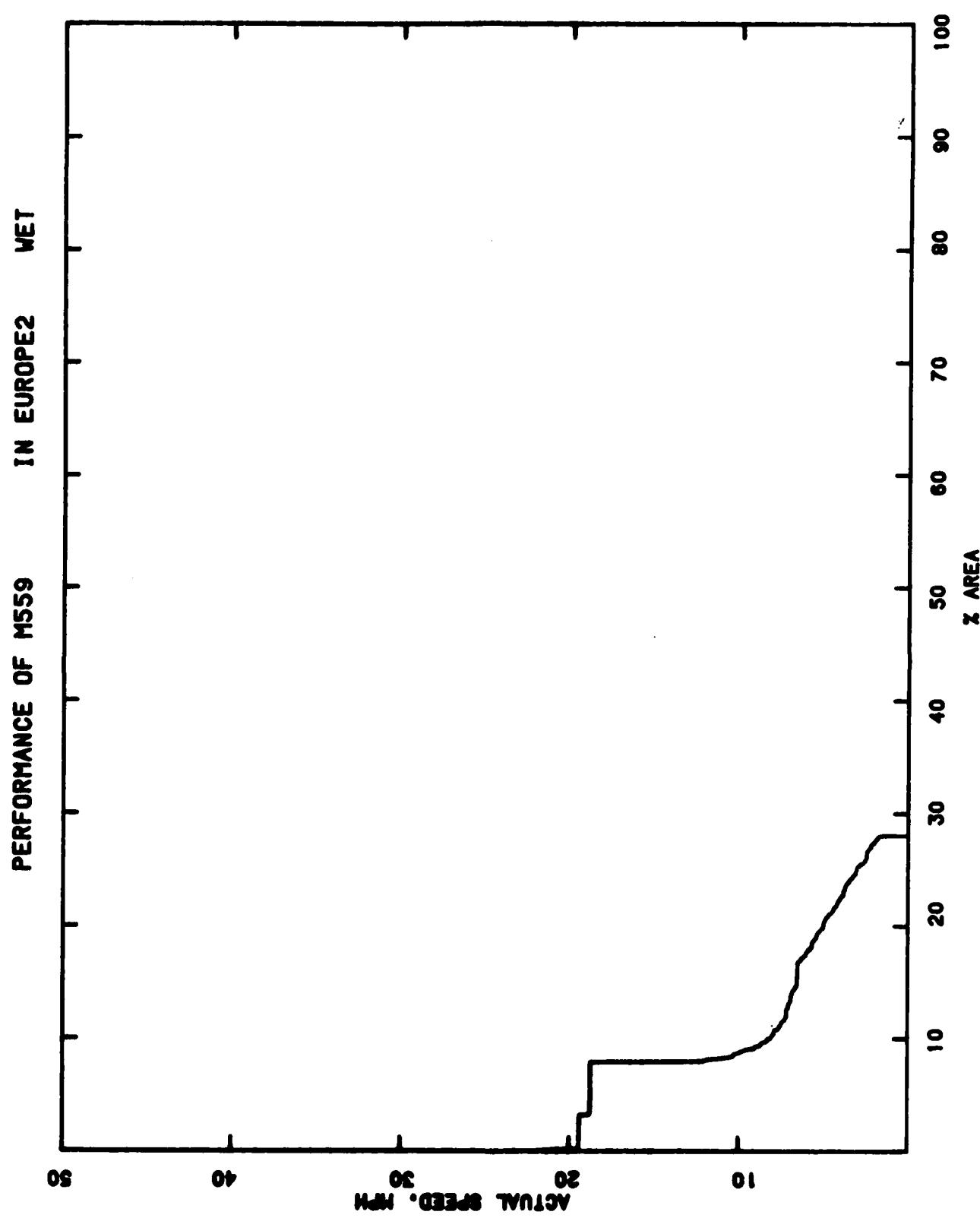


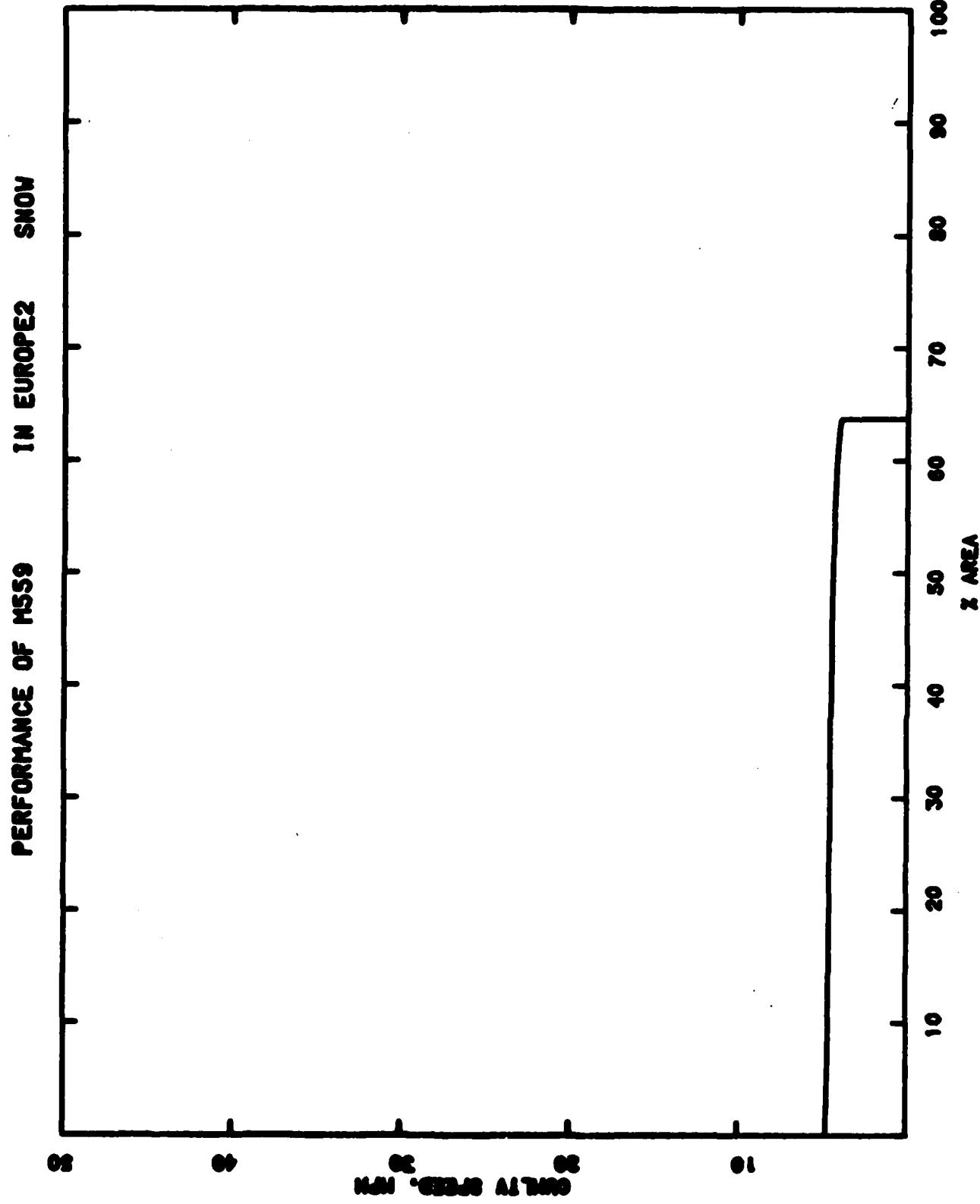
PERFORMANCE OF M559 IN EUROPE2 DRY



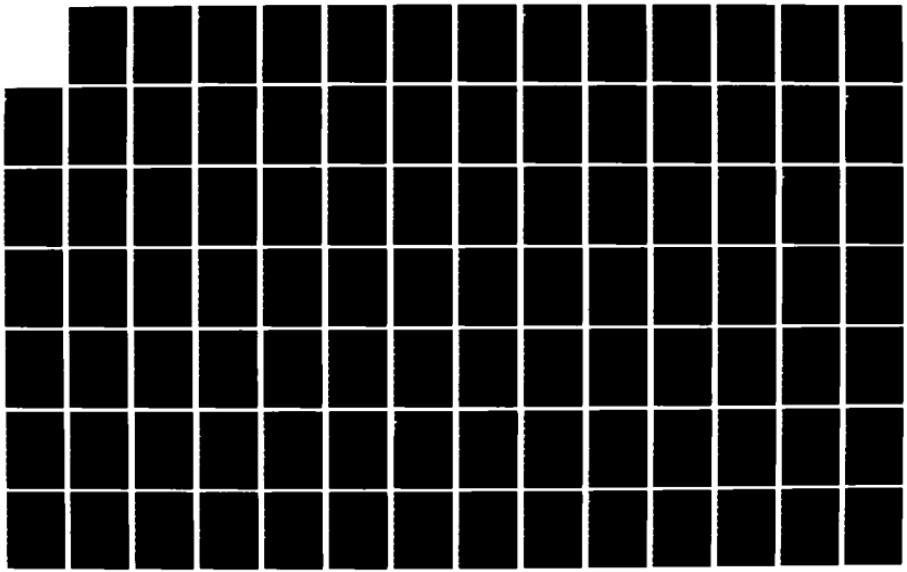
PERFORMANCE OF M559 IN EUROPE2 WET

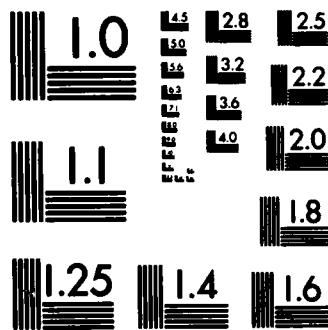






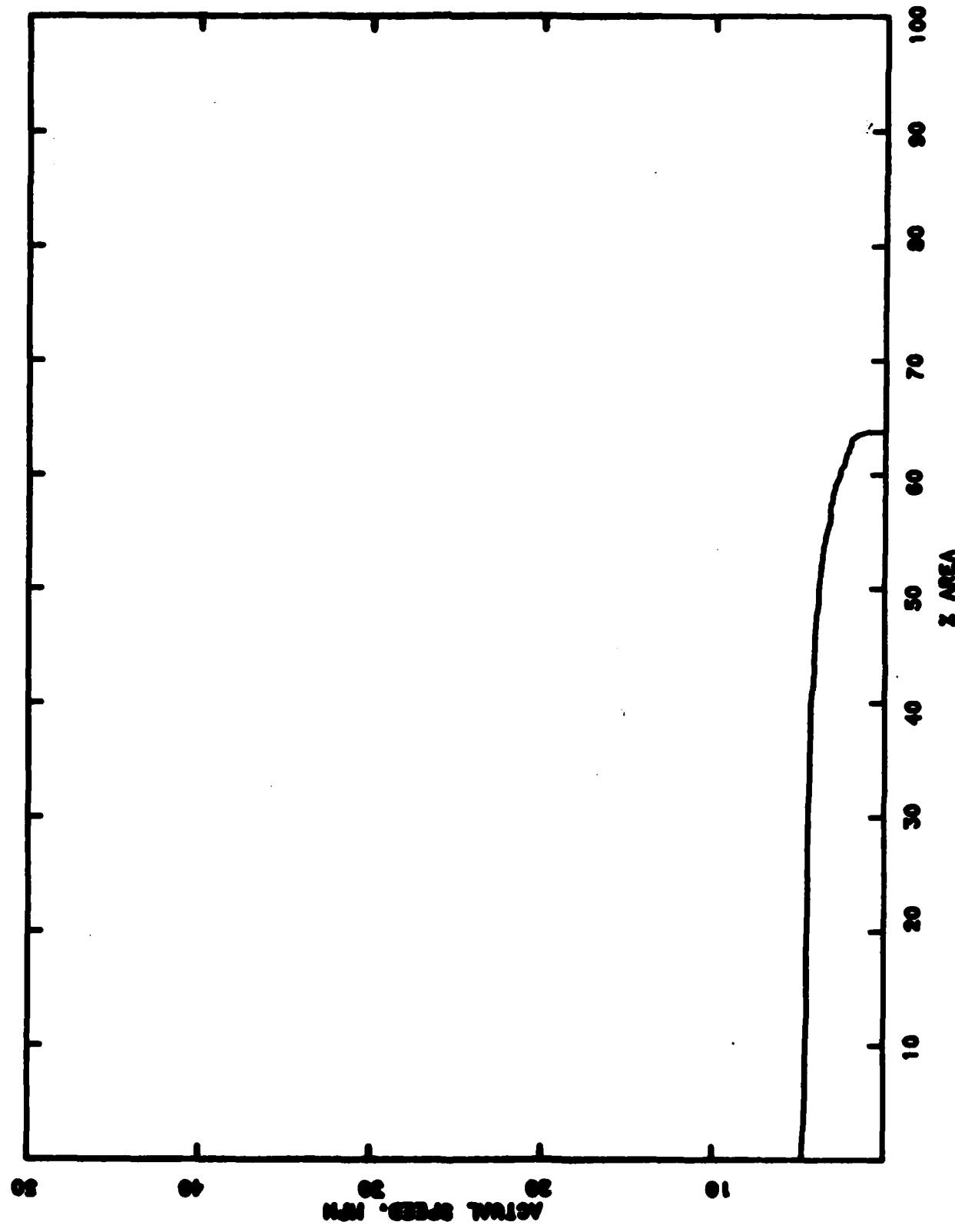
AD-A133 700 MOBILITY AND TRANSPORTATION ANALYSIS IN SUPPORT OF THE 2/3
LIGHT ATTACK BATTALION (U) ARMY MATERIEL SYSTEMS ANALYSIS
ACTIVITY ABERDEEN PROVING GROUND C R DIETZ ET AL.
UNCLASSIFIED MAY 83 AMSAA-TR-374-VOL-2 F/G 15/5 NL

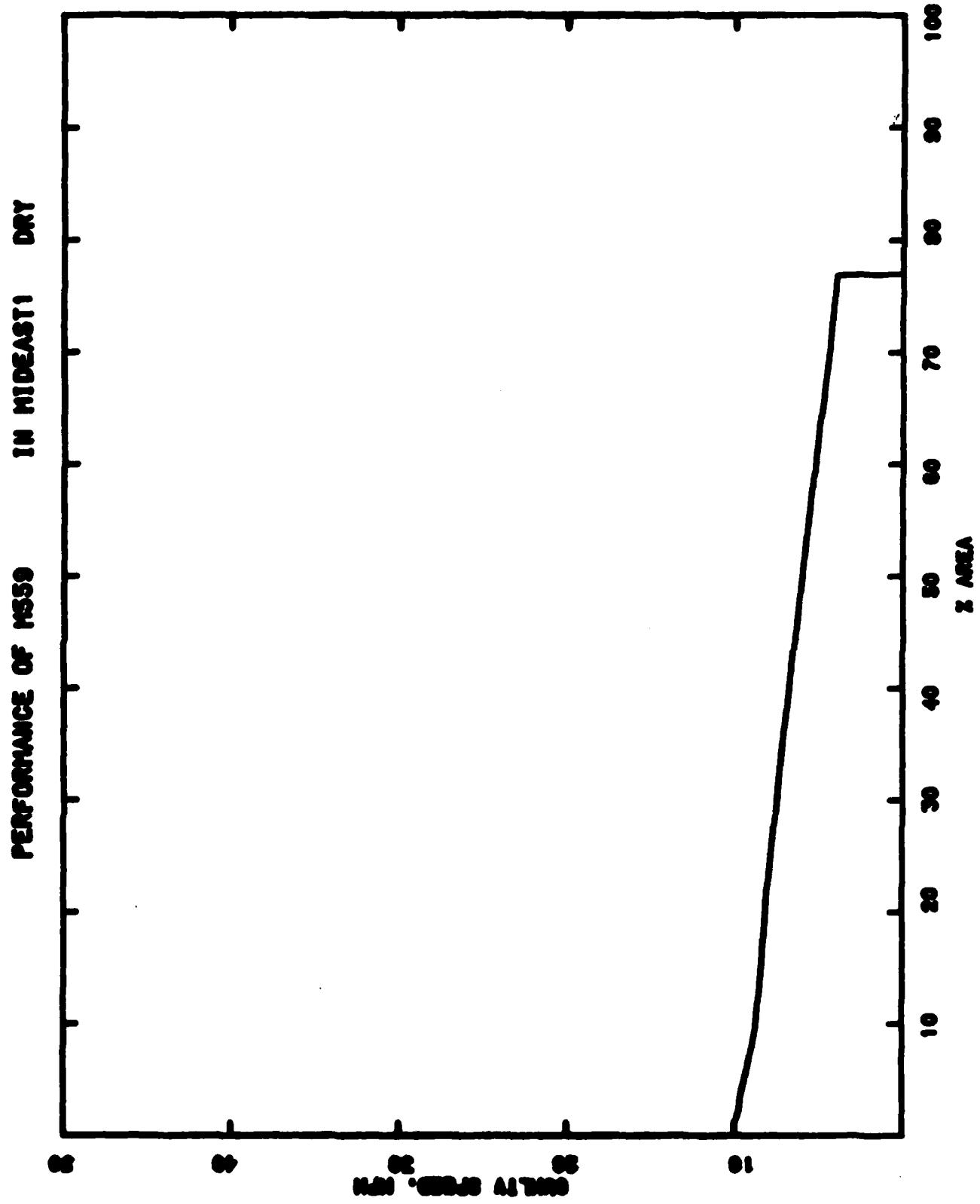


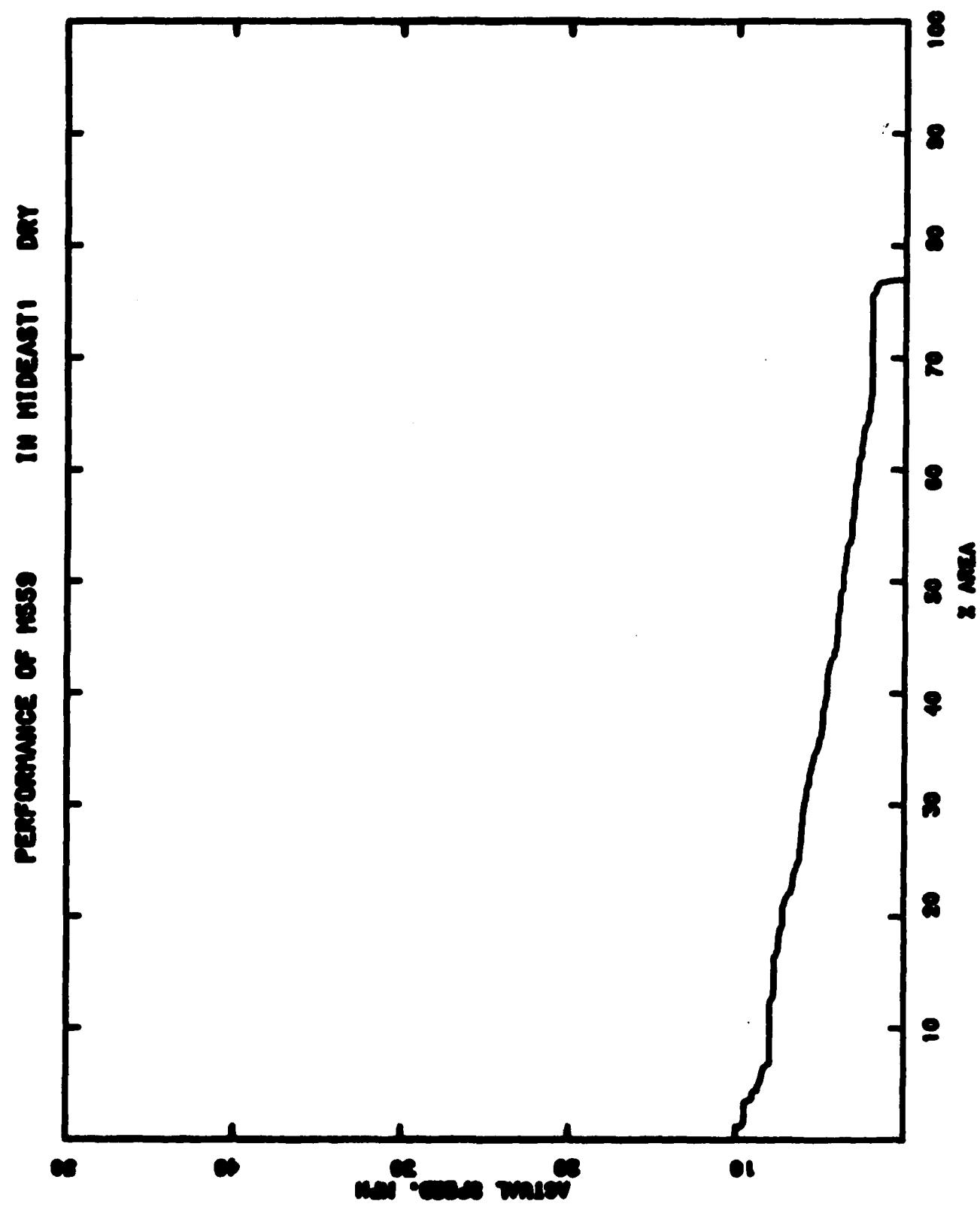


MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

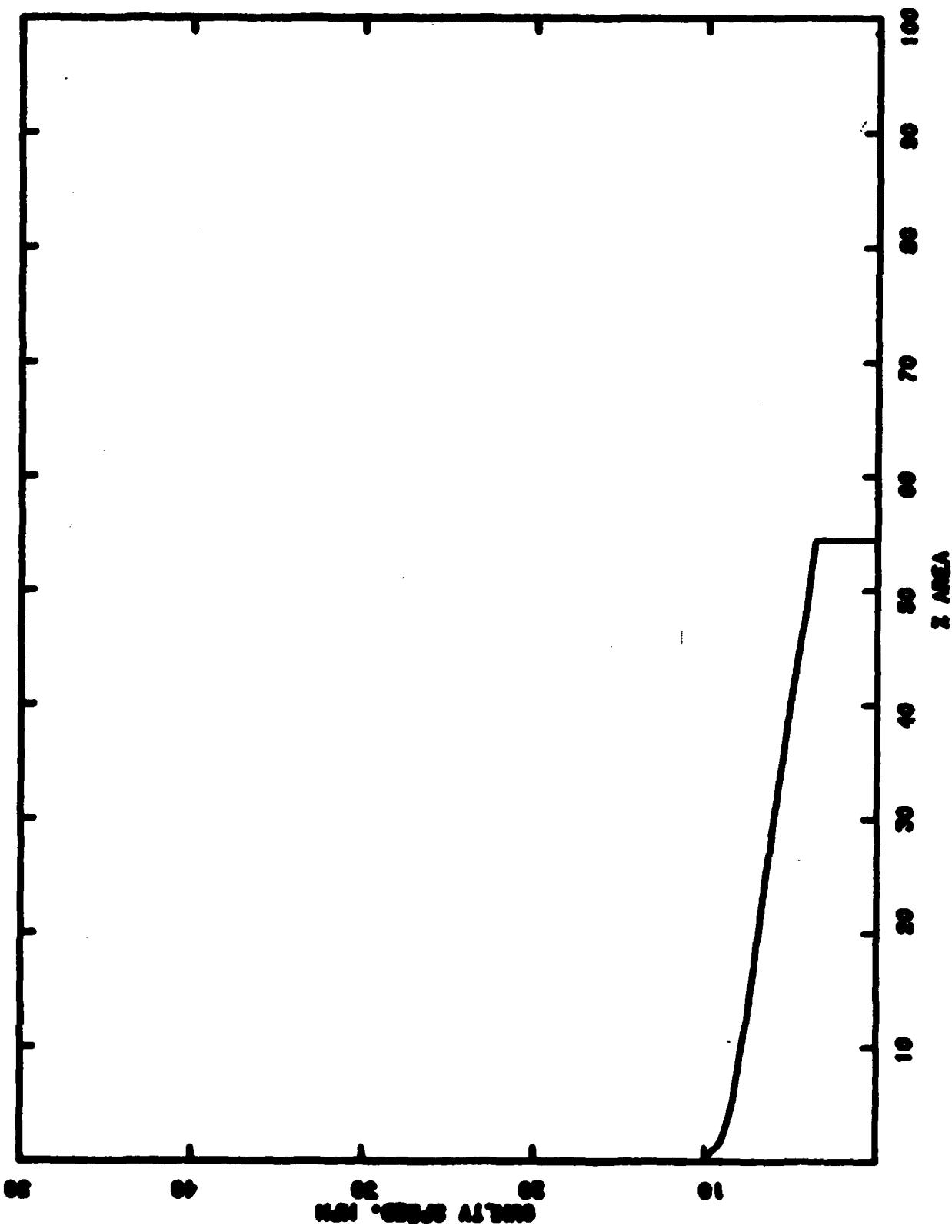
PERFORMANCE OF MSS9
IN EUROPE2 SHOWS



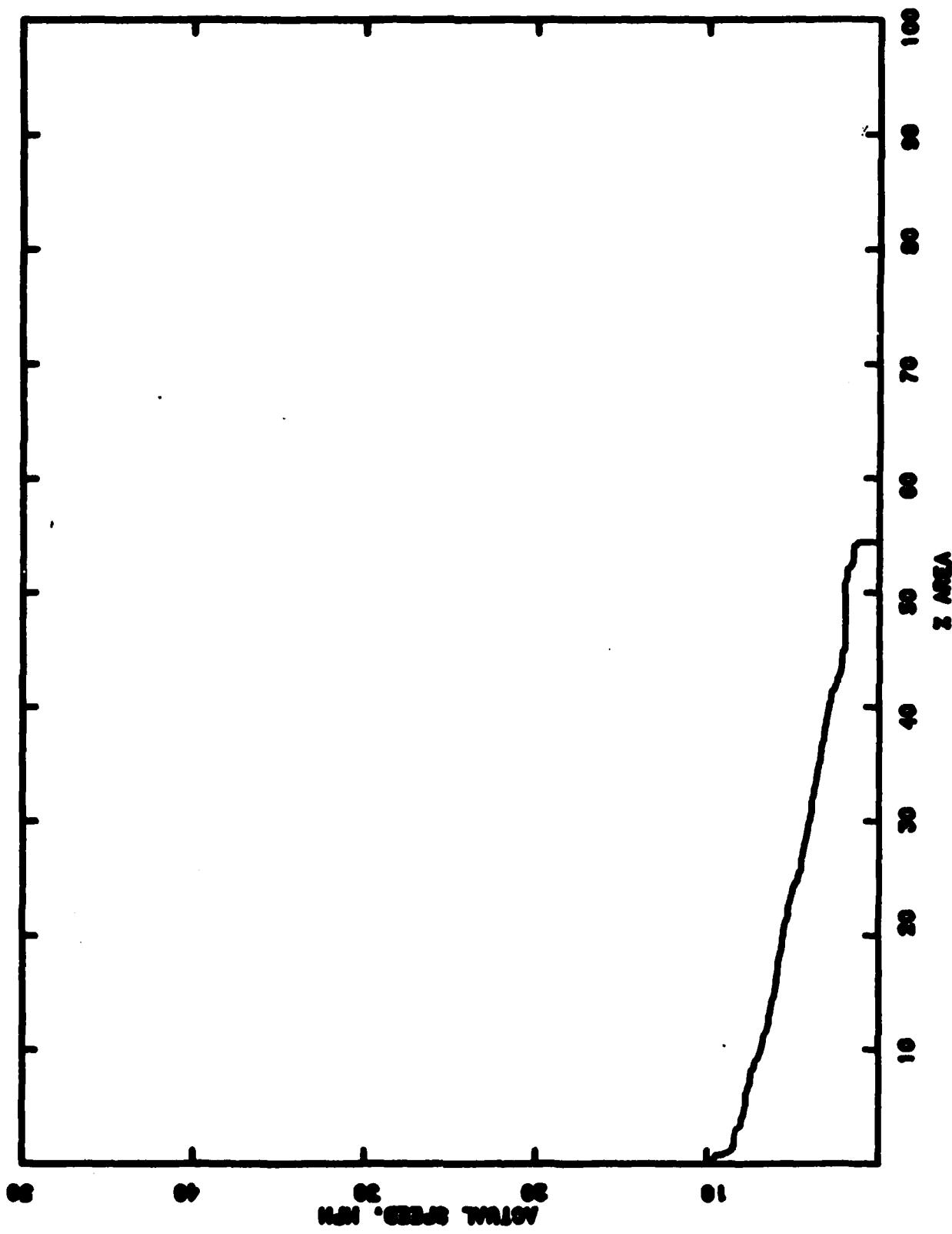




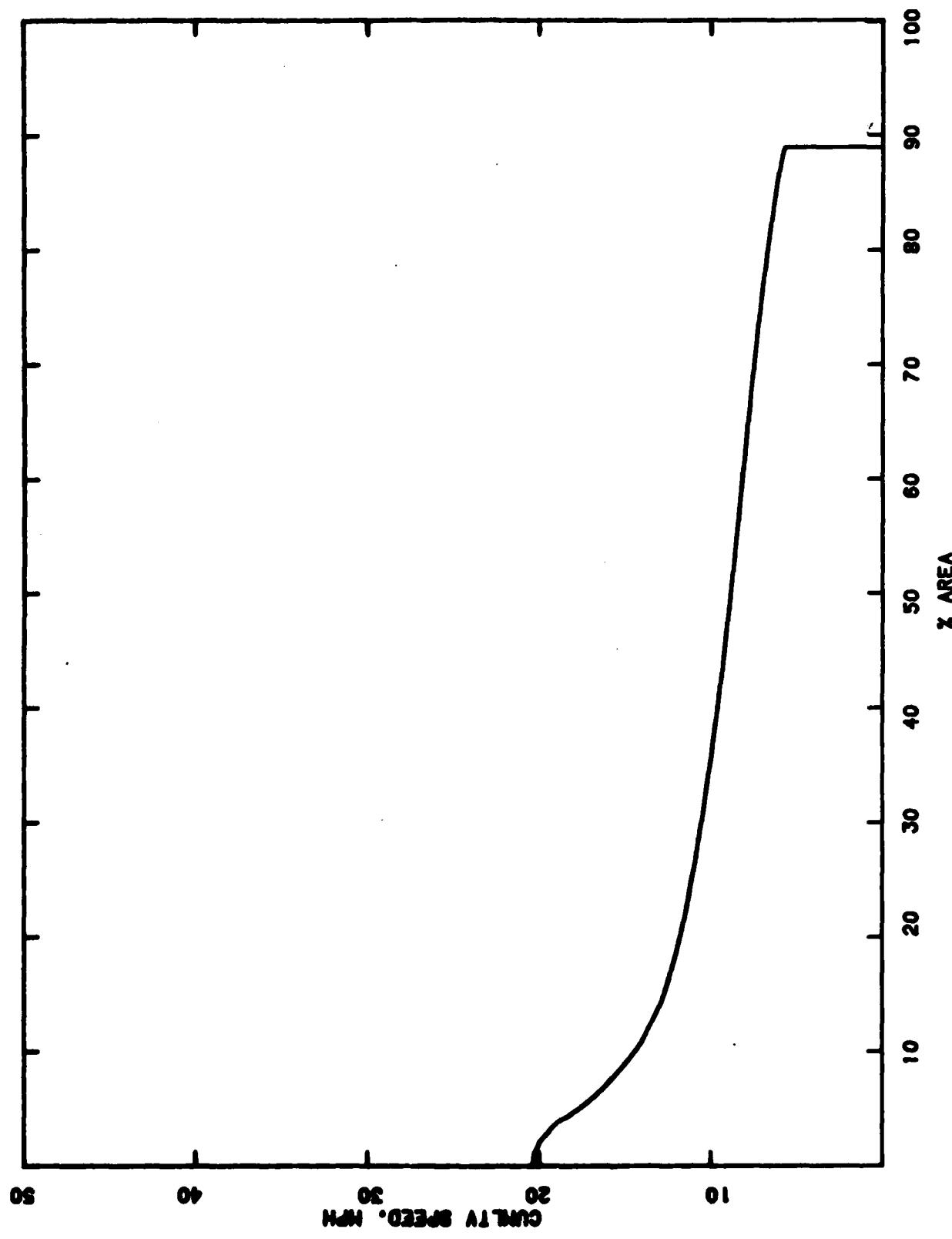
PERFORMANCE OF MASS IN MIGRASTI VET



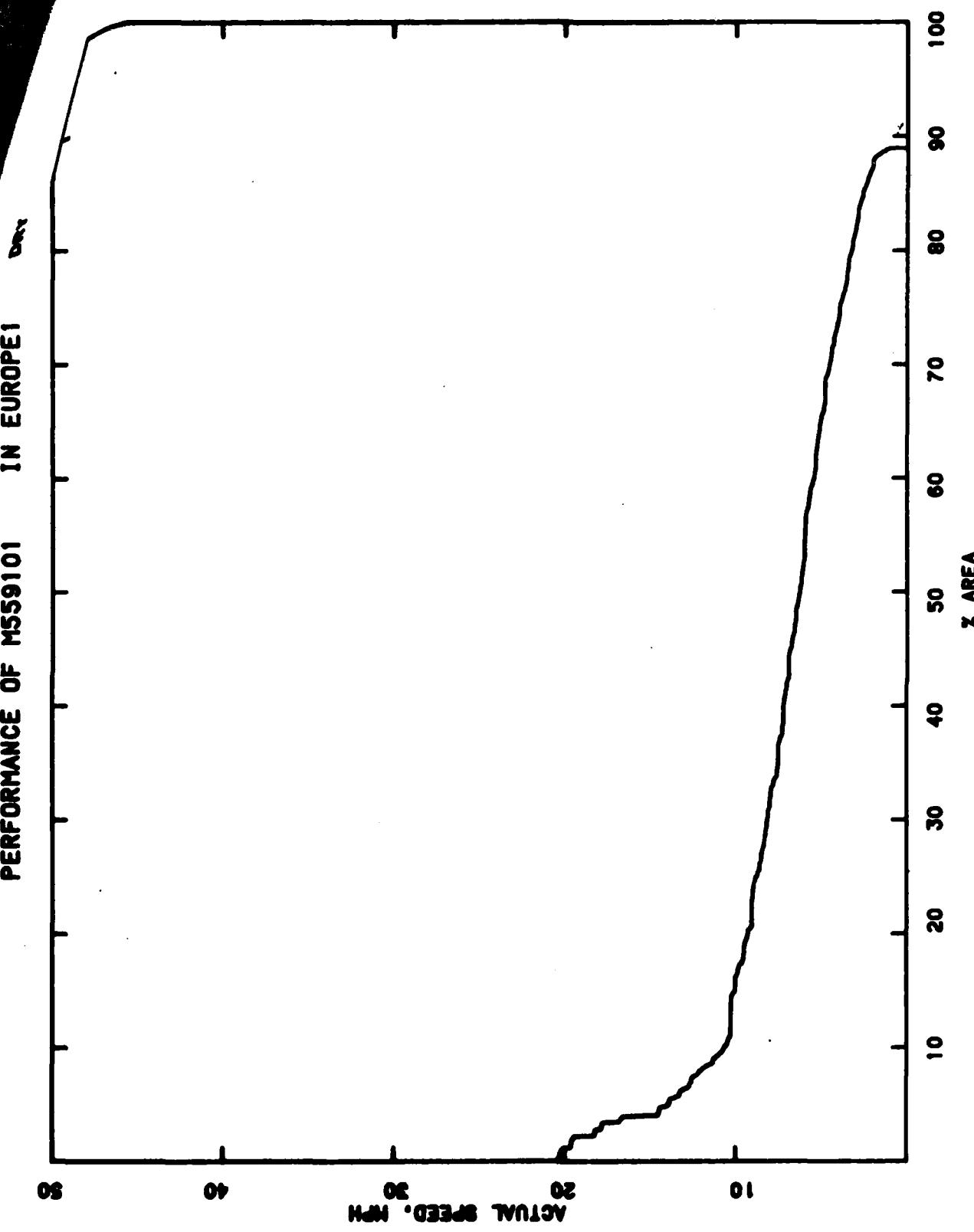
PERFORMANCE OF M350 IN MODEST: MET

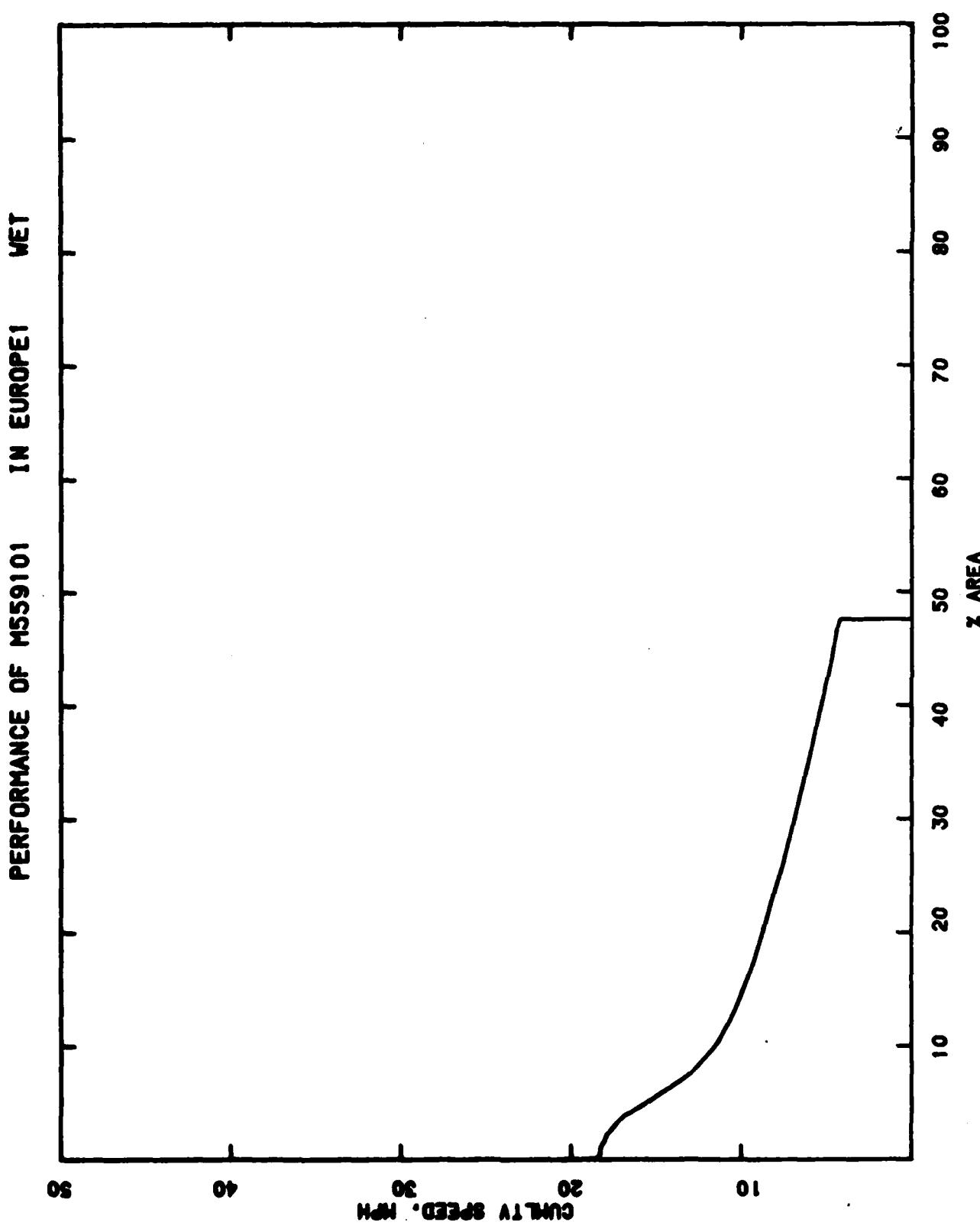


PERFORMANCE OF M559101 IN EUROPE1 DRY



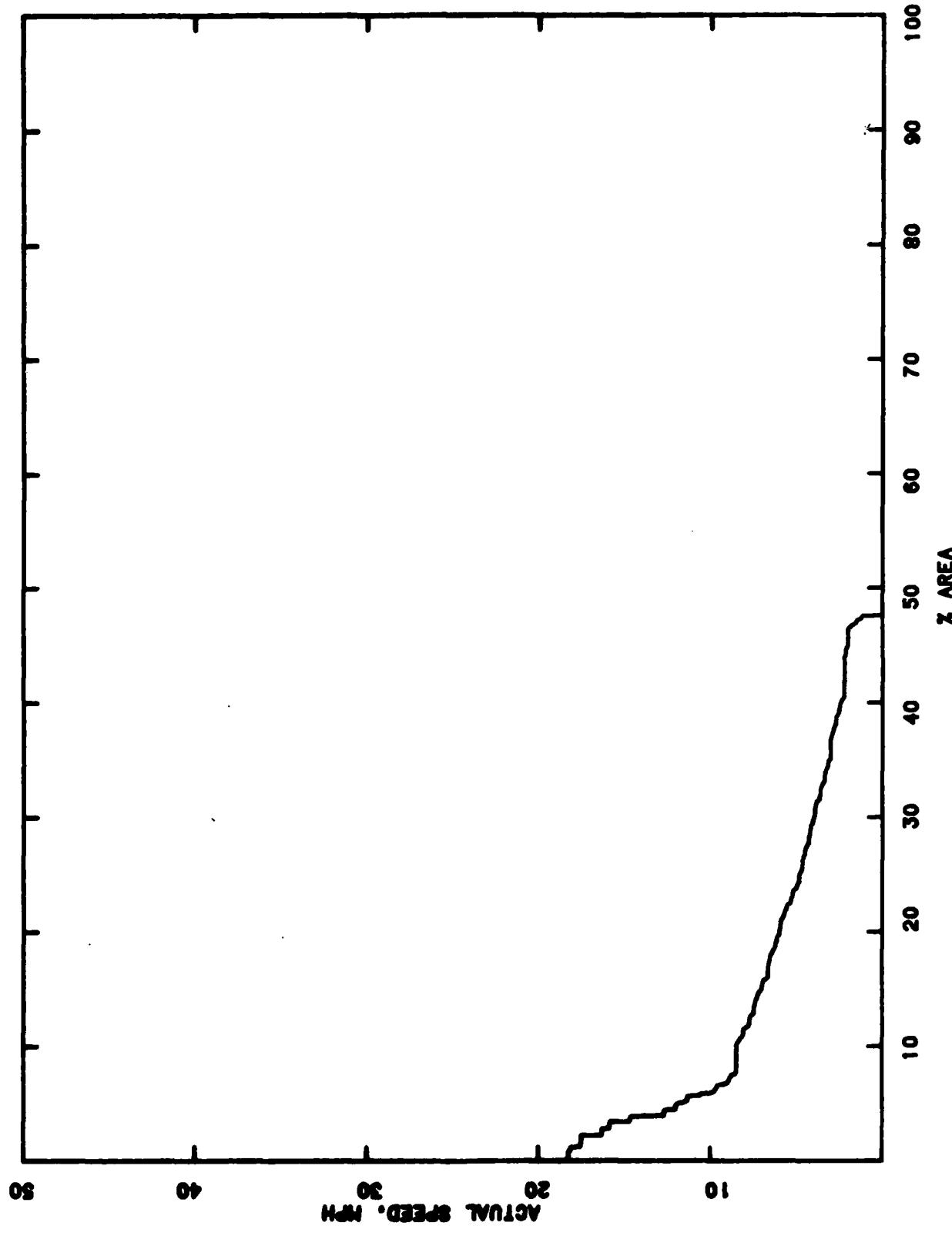
PERFORMANCE OF M559101 IN EUROPE

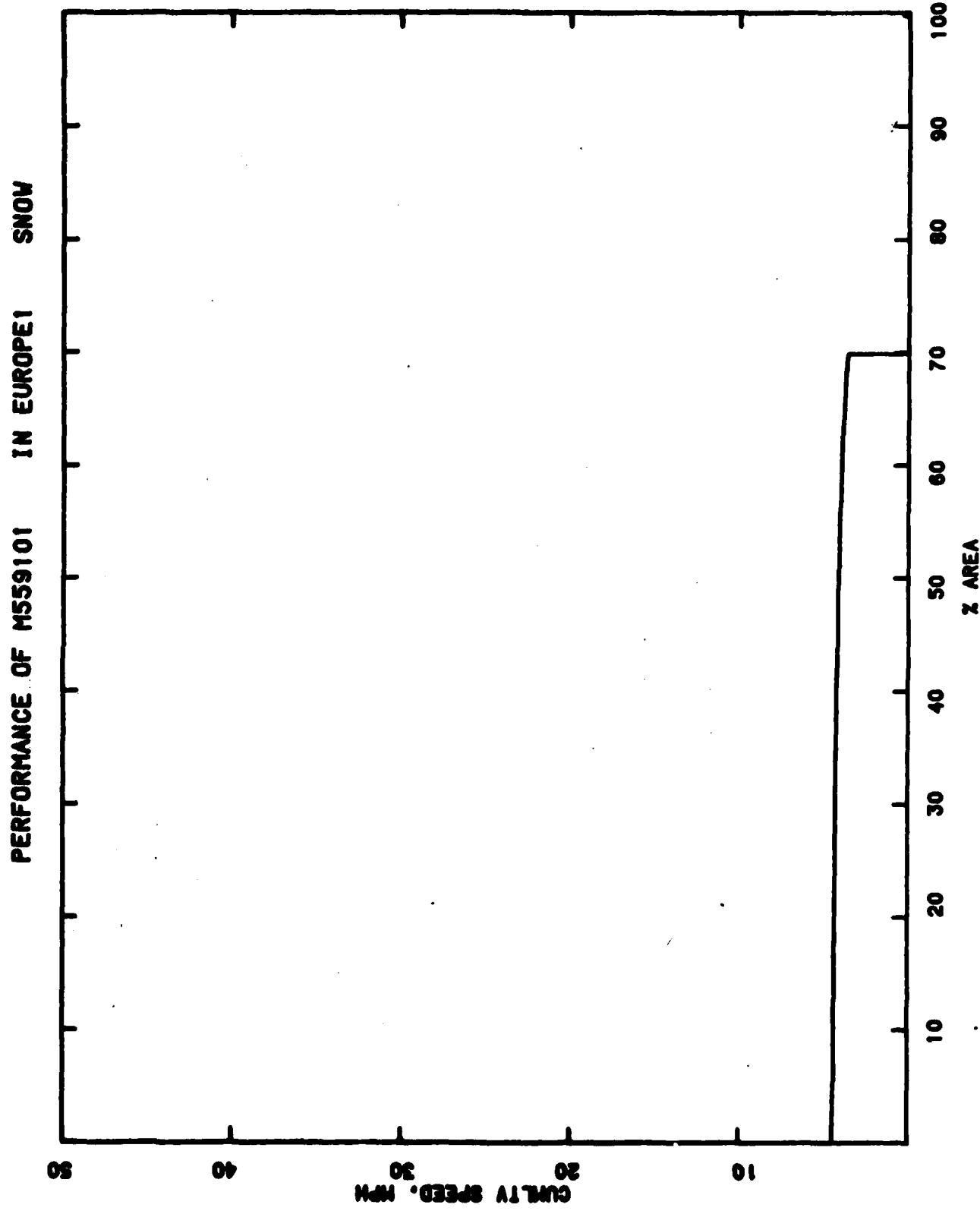




100

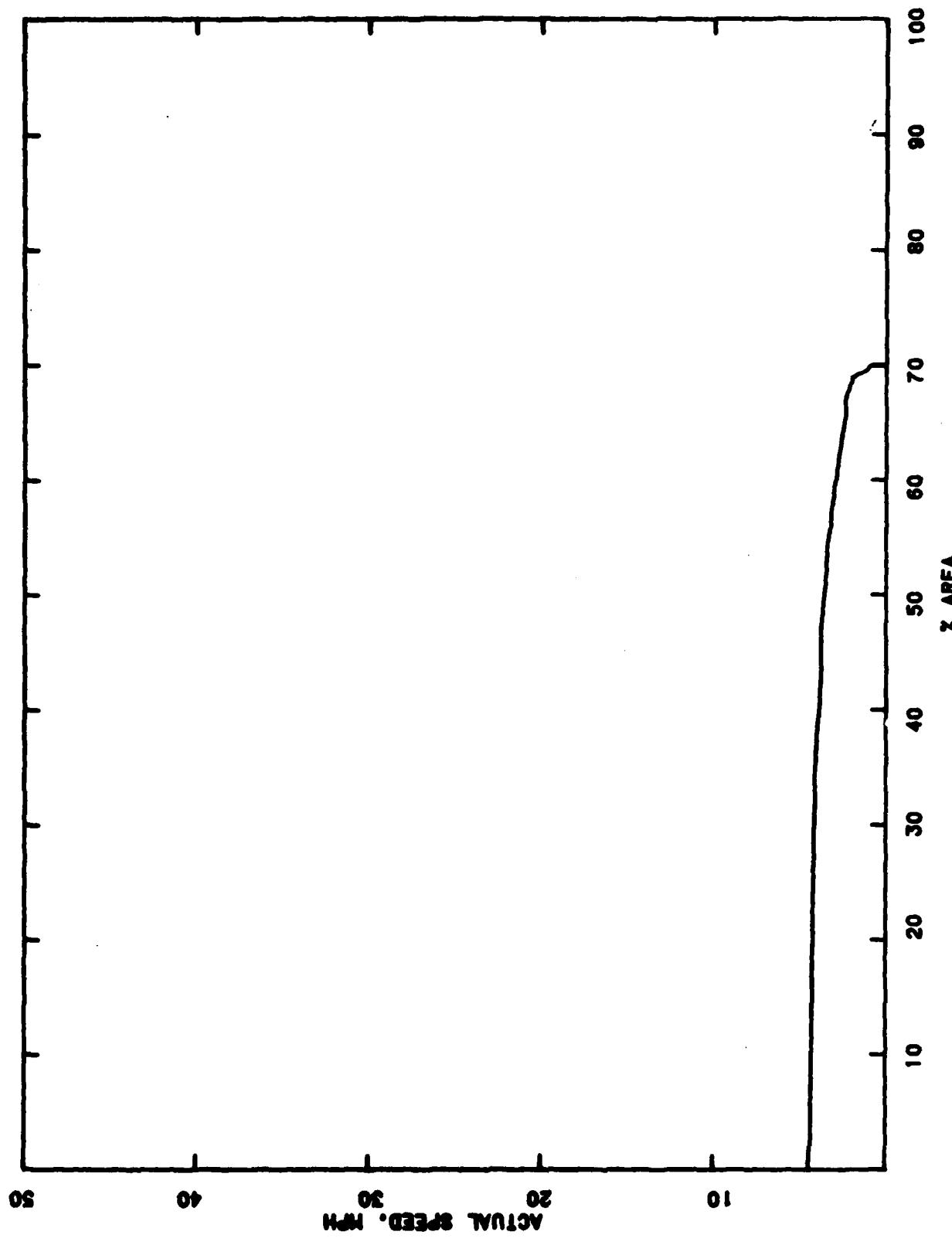
PERFORMANCE OF M559101 IN EUROPE I WET

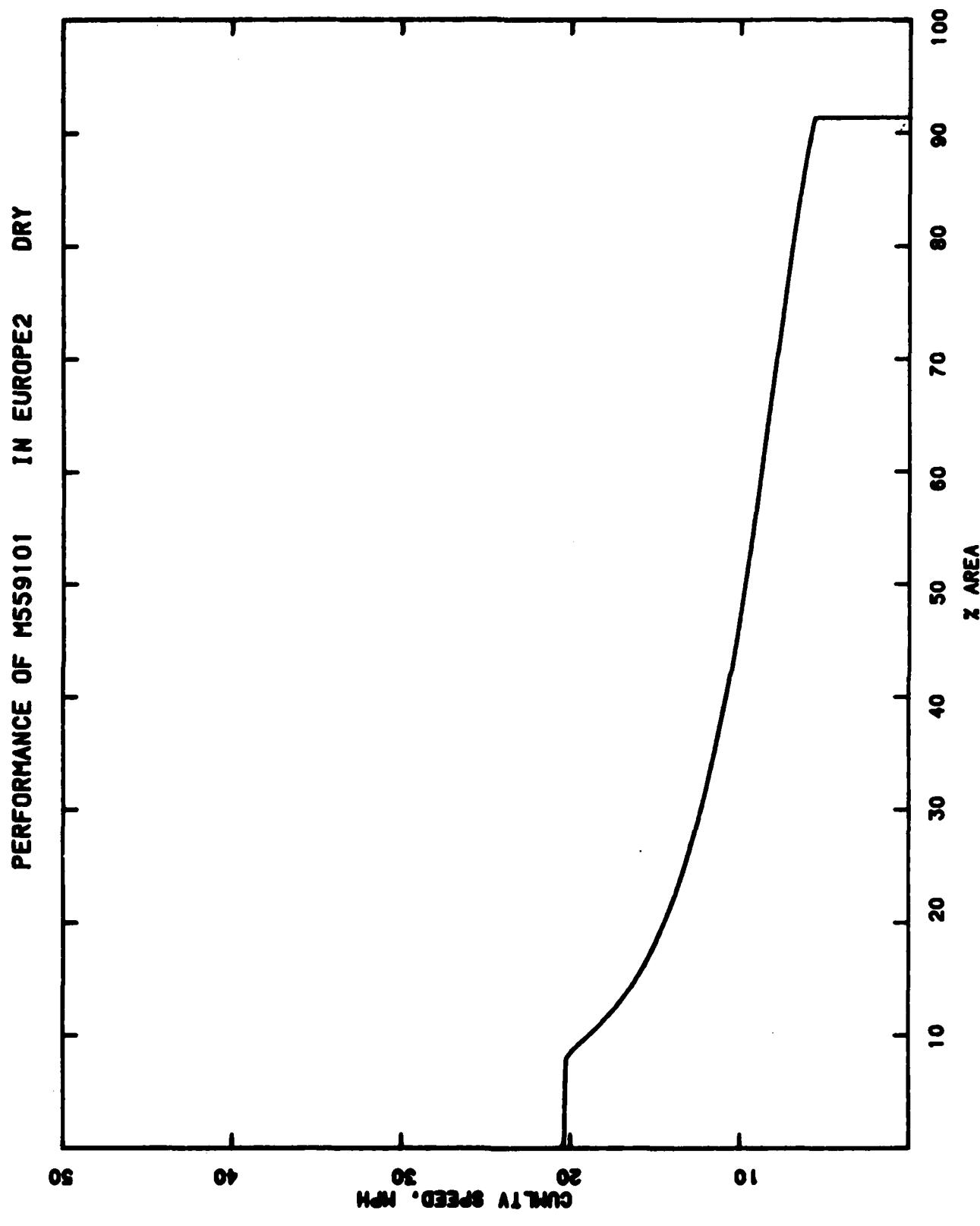




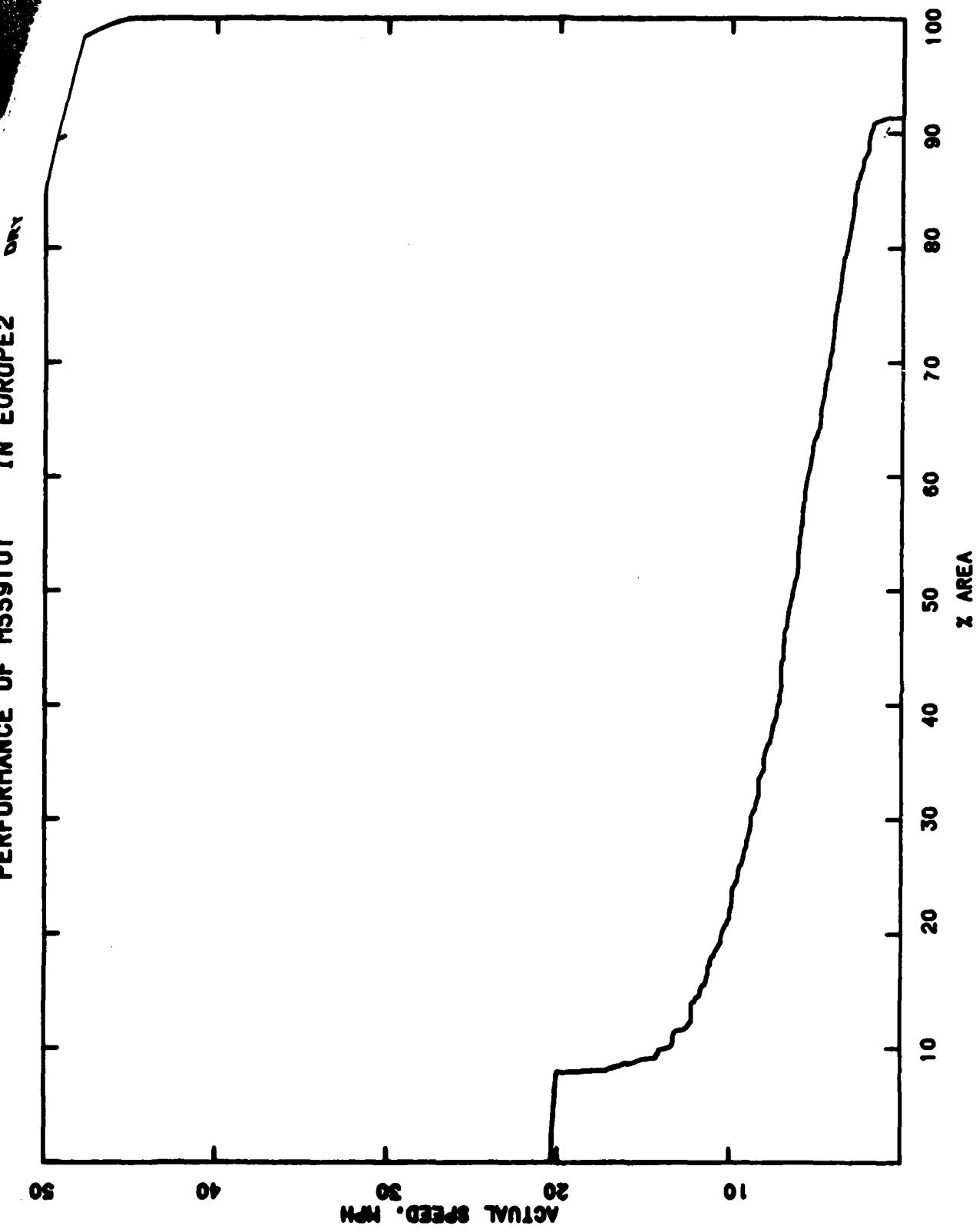
102

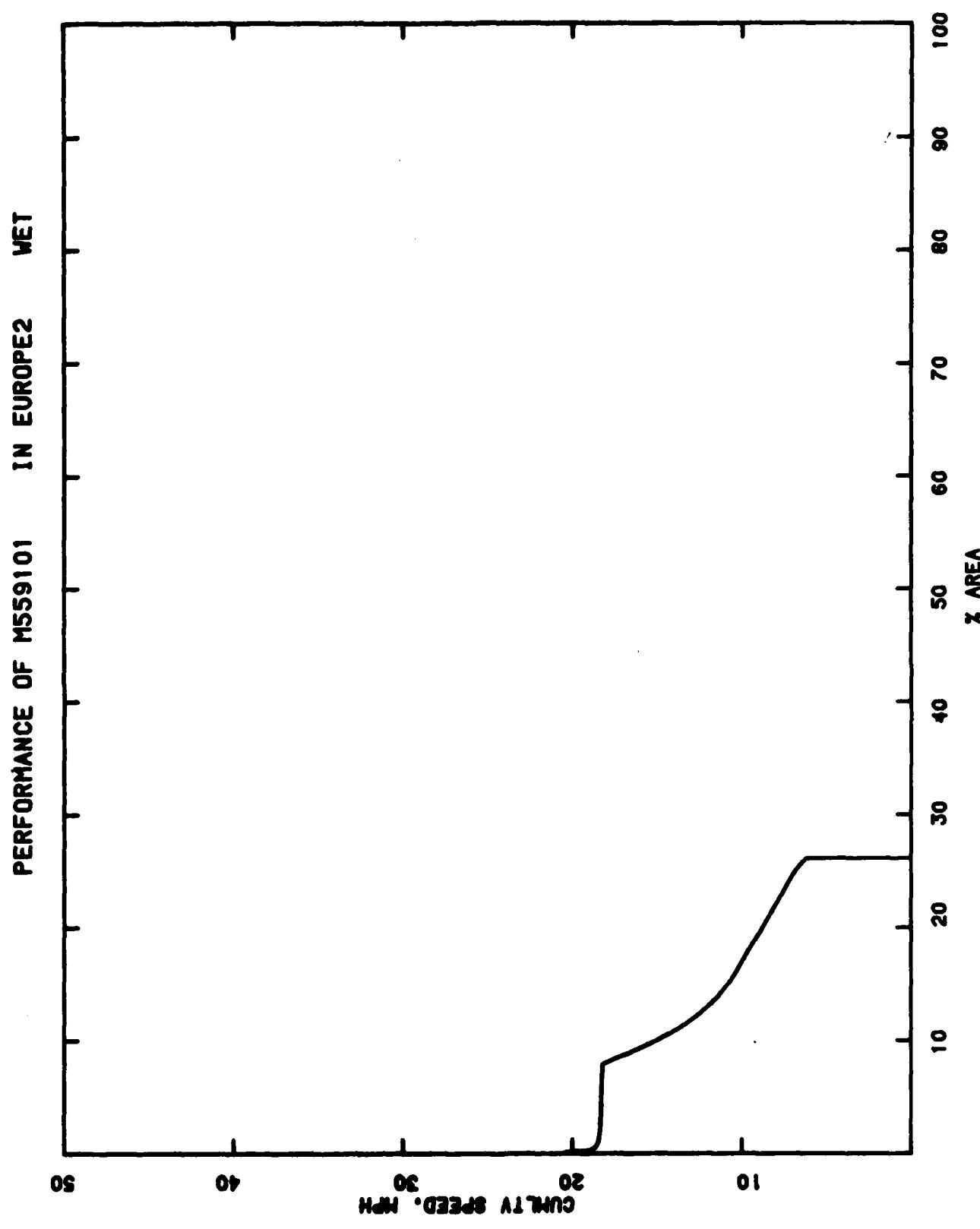
PERFORMANCE OF M559101 IN EUROPEI SNOW





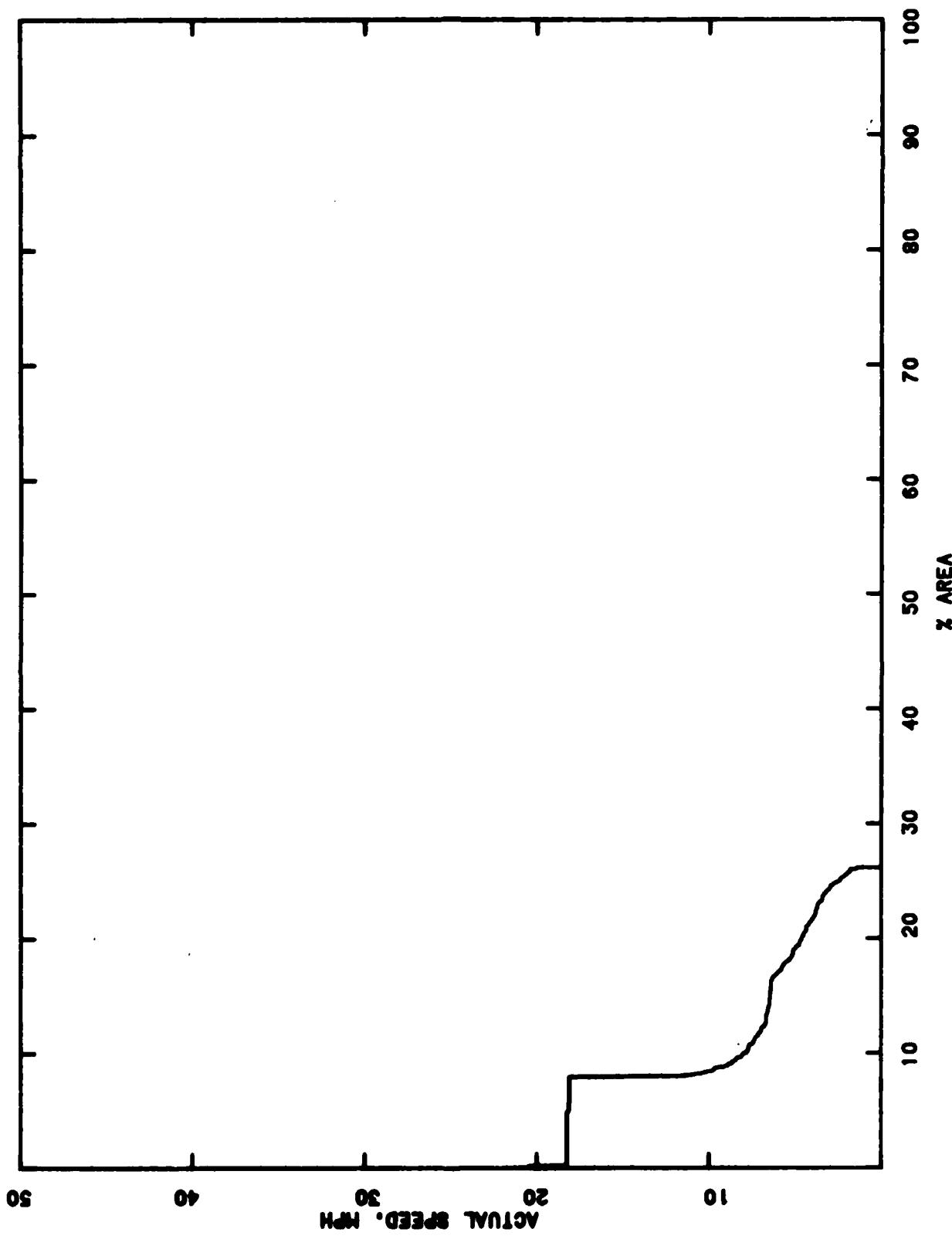
PERFORMANCE OF M559101 IN EUROPE2

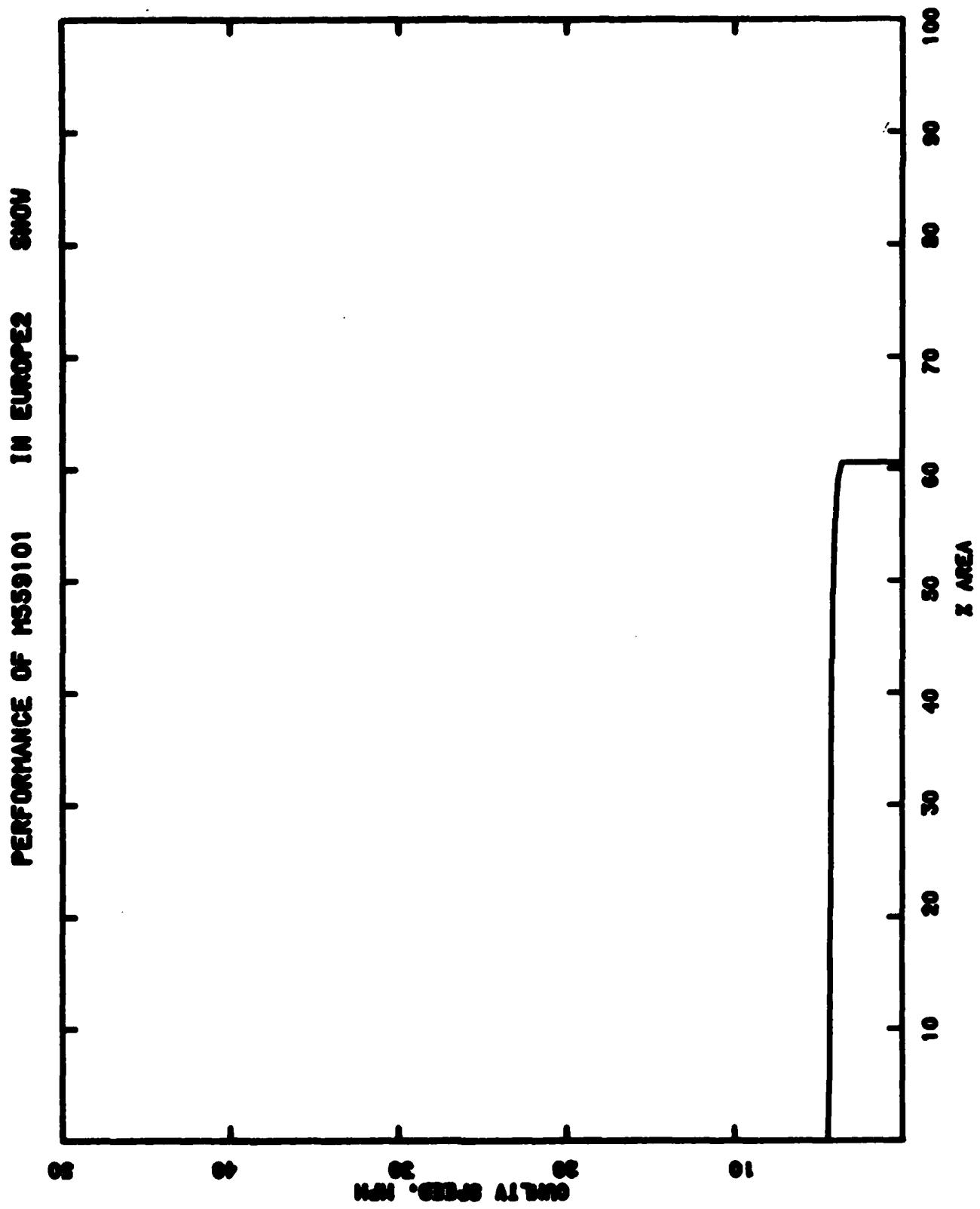




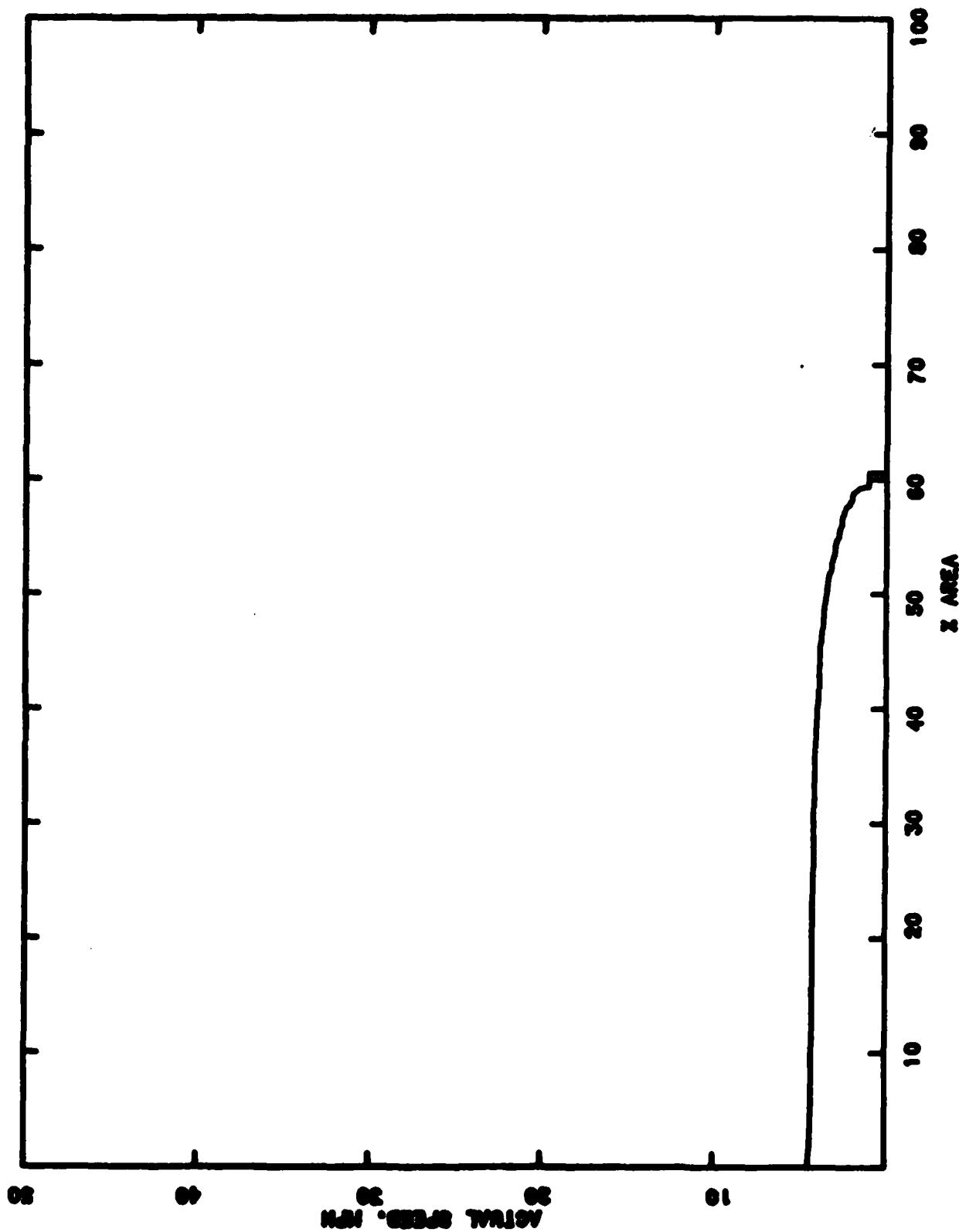
106

PERFORMANCE OF M559101 IN EUROPE2 WET

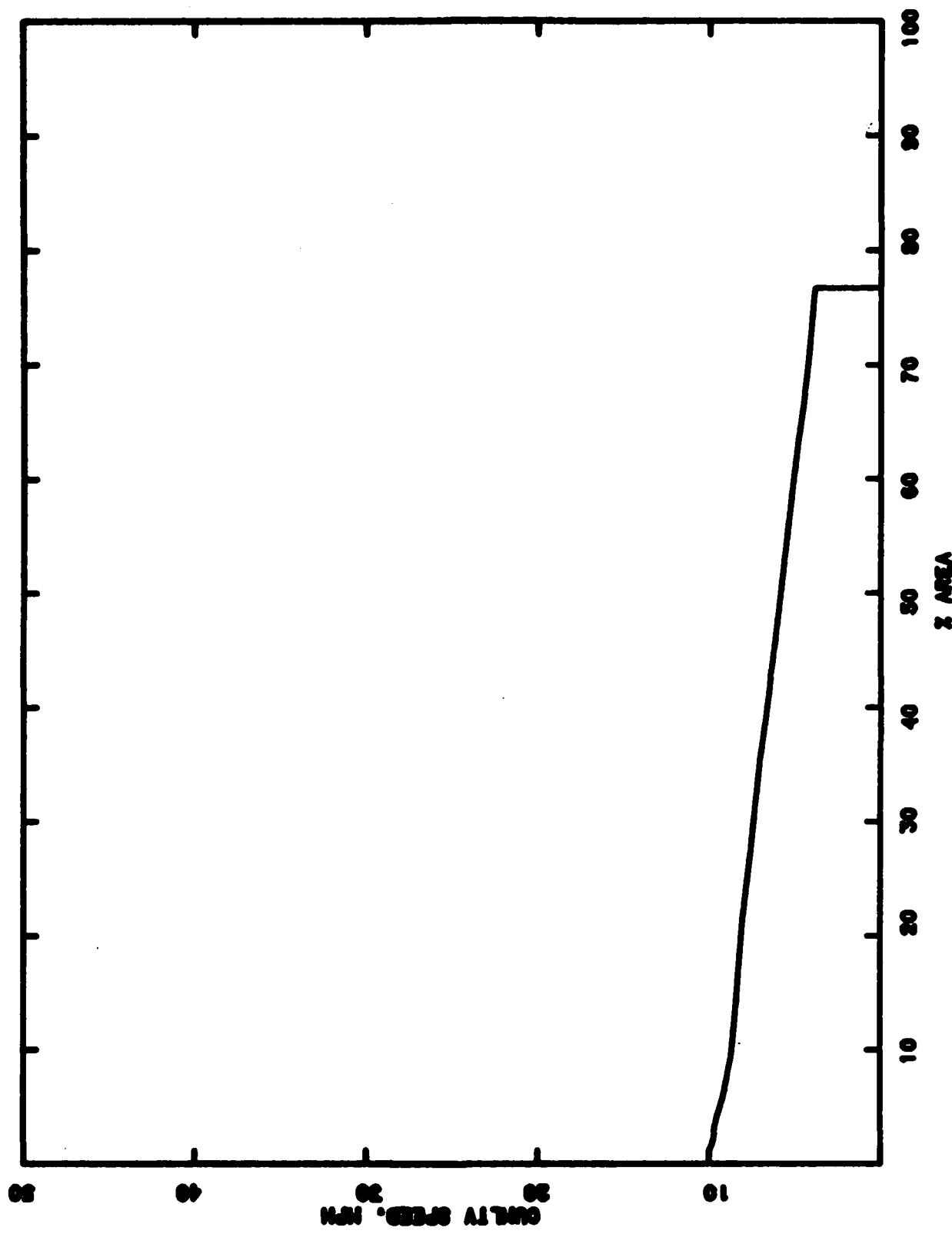




PERFORMANCE OF M559101 IN EUROPE2

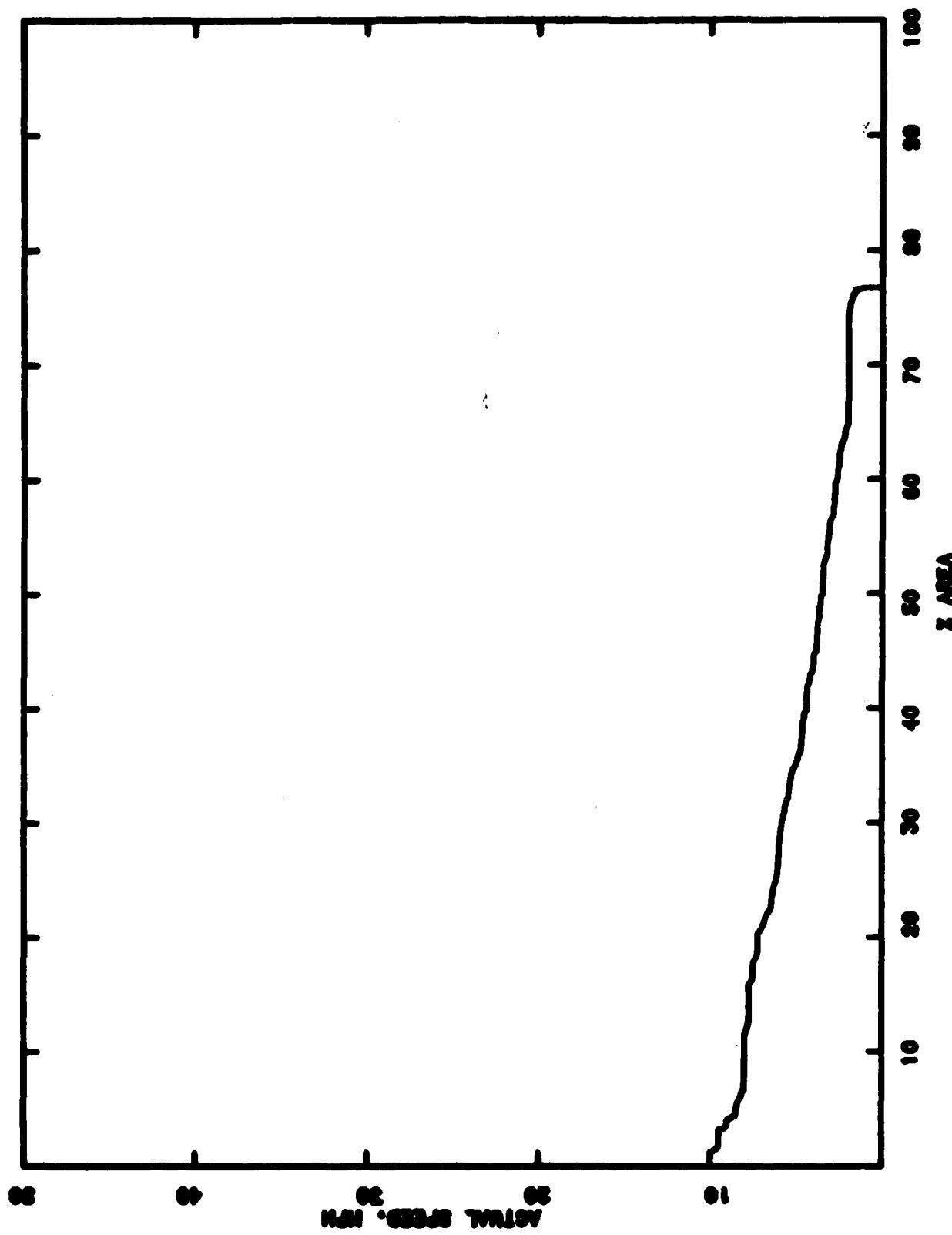


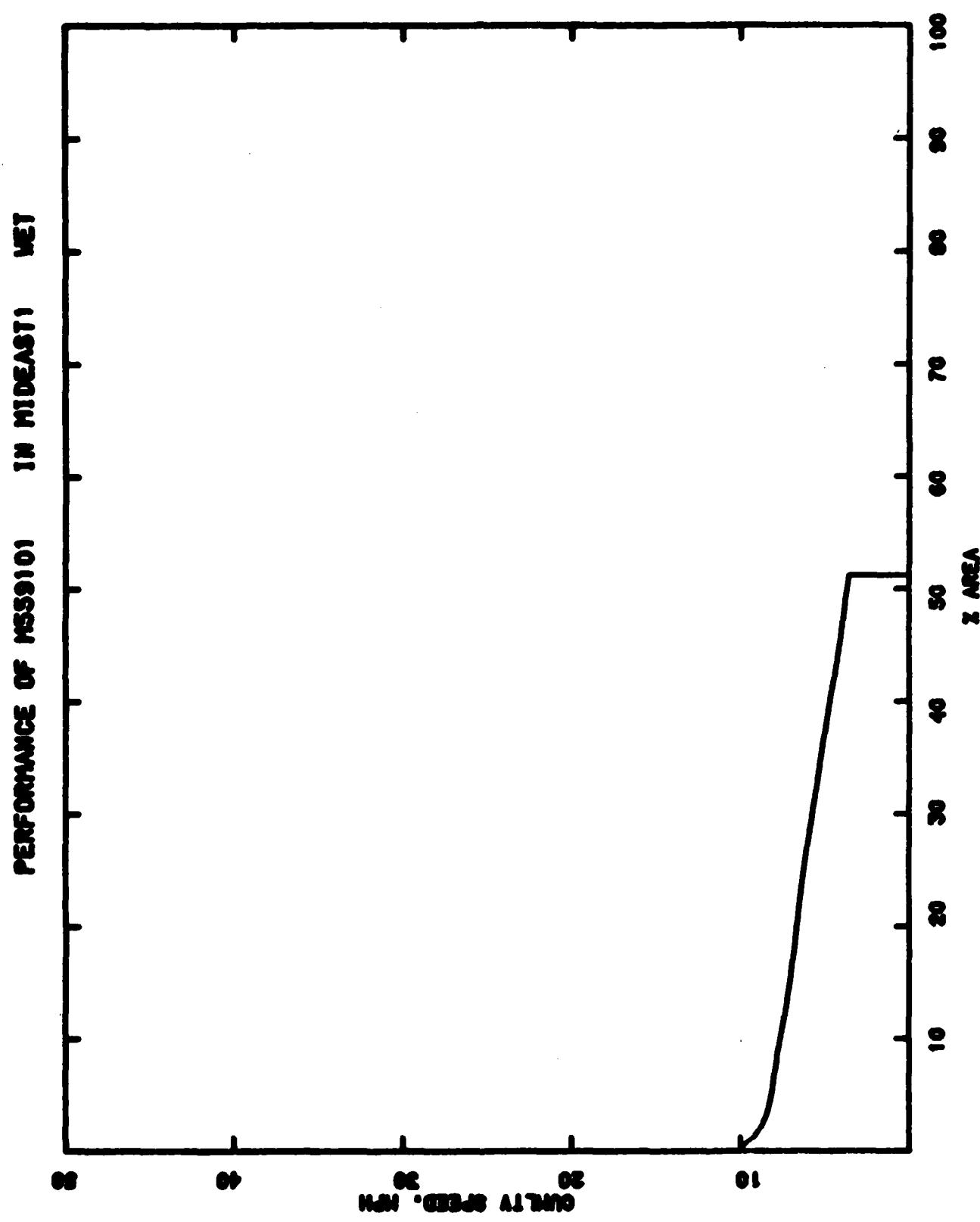
PERFORMANCE OF M359101 IN MIDEASTI DRY



MARSHAL AIR FORCE

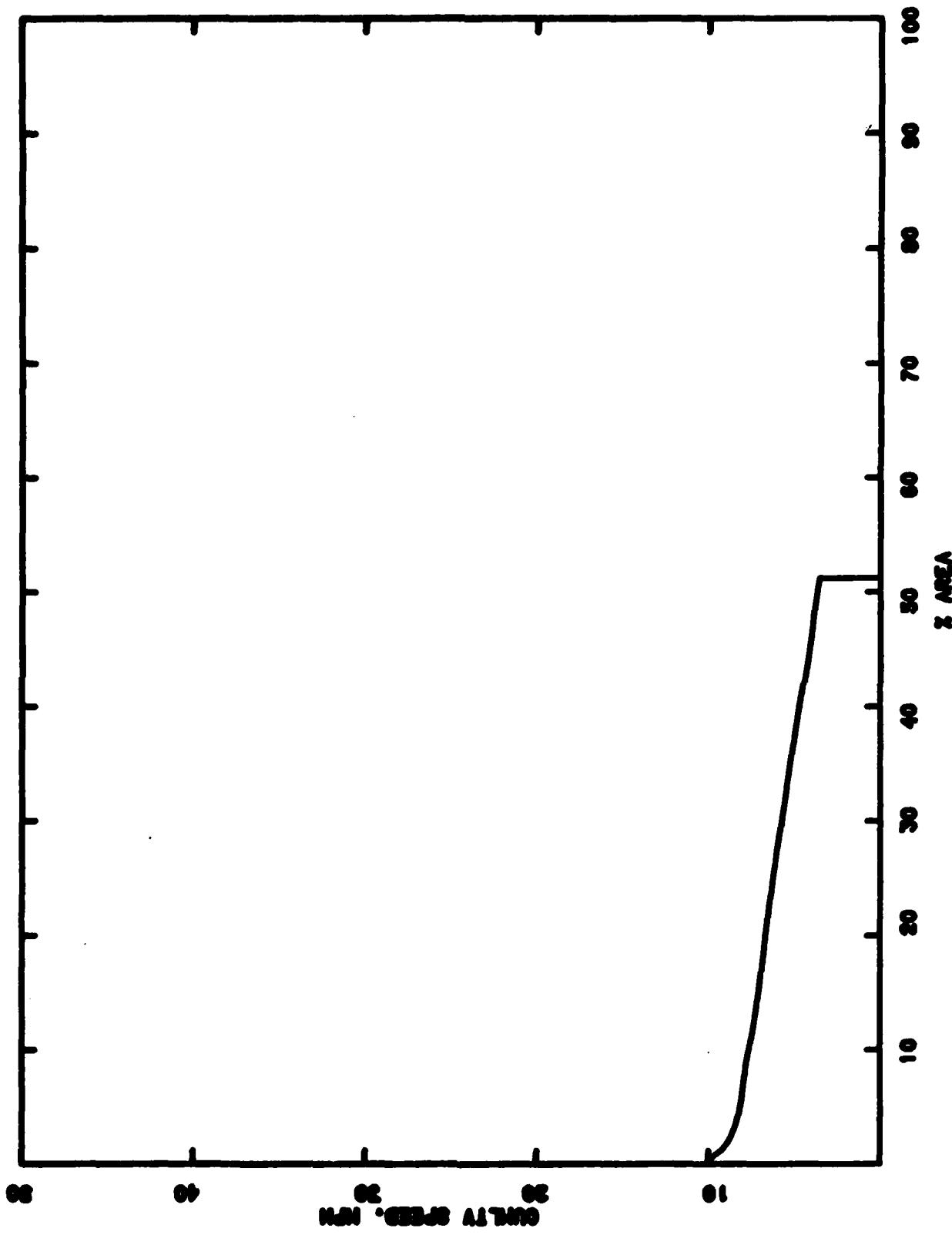
PERFORMANCE OF MSS901 IN MIDEAST DRY





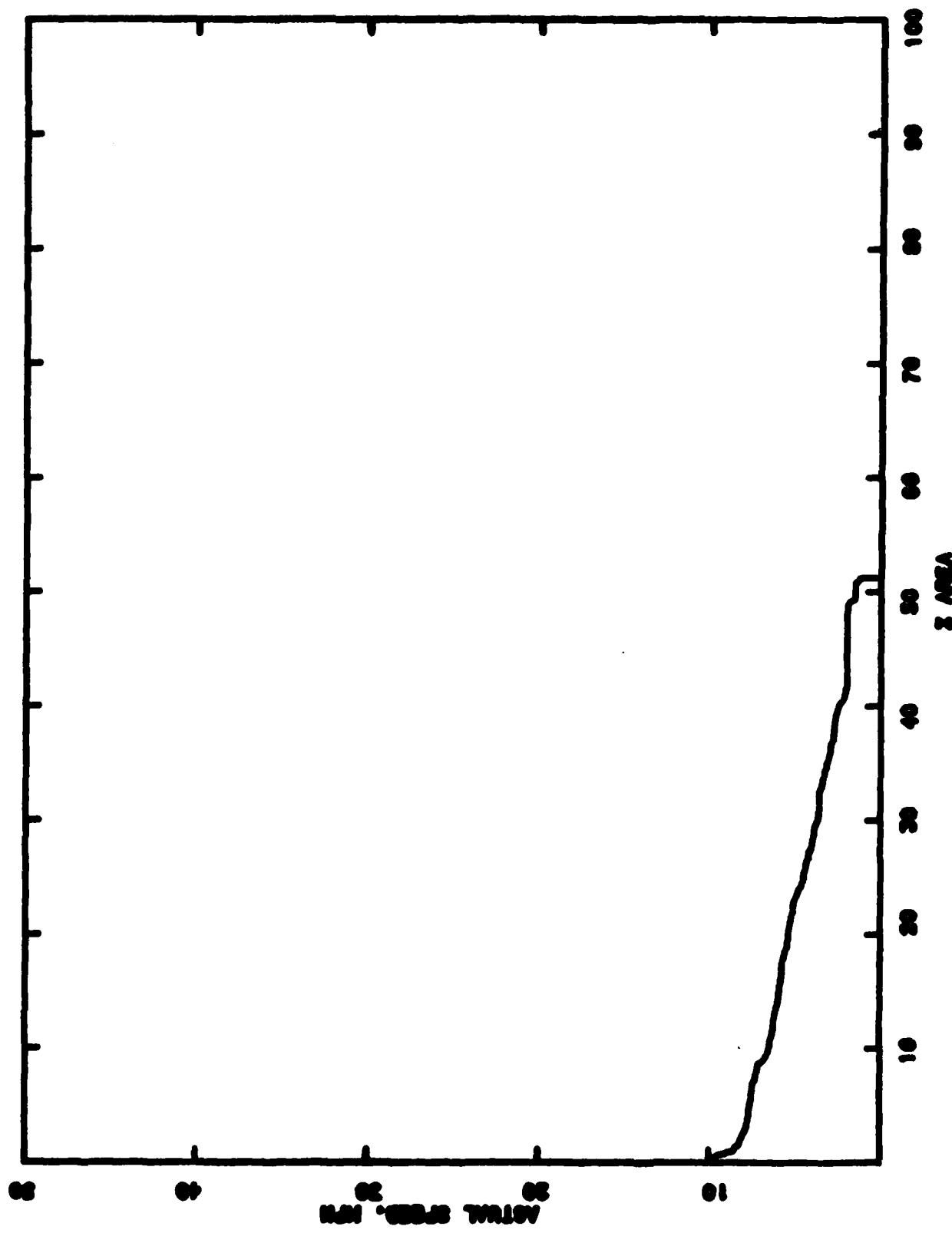
112

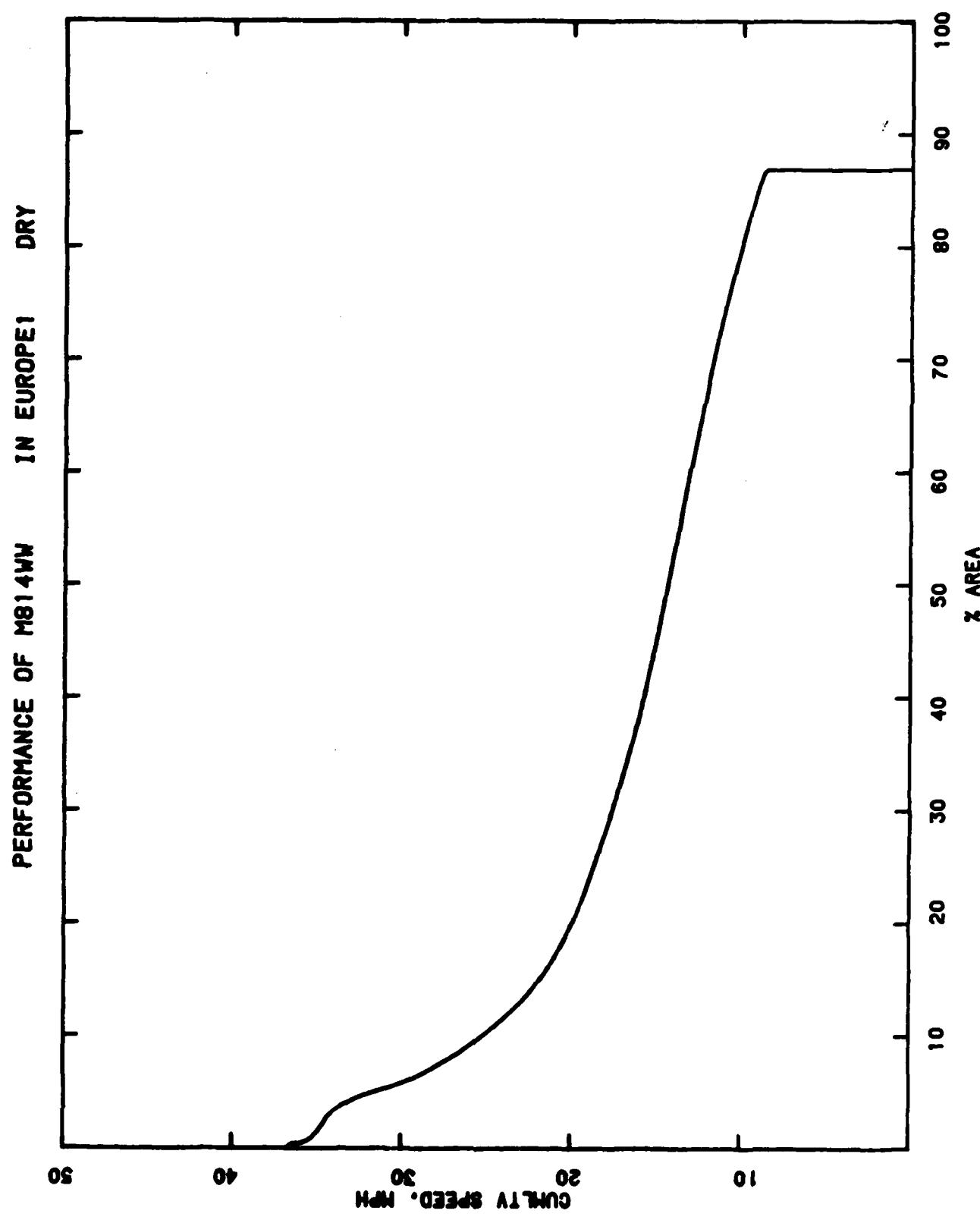
PERFORMANCE OF NS59101 IN MIDEAST I WET

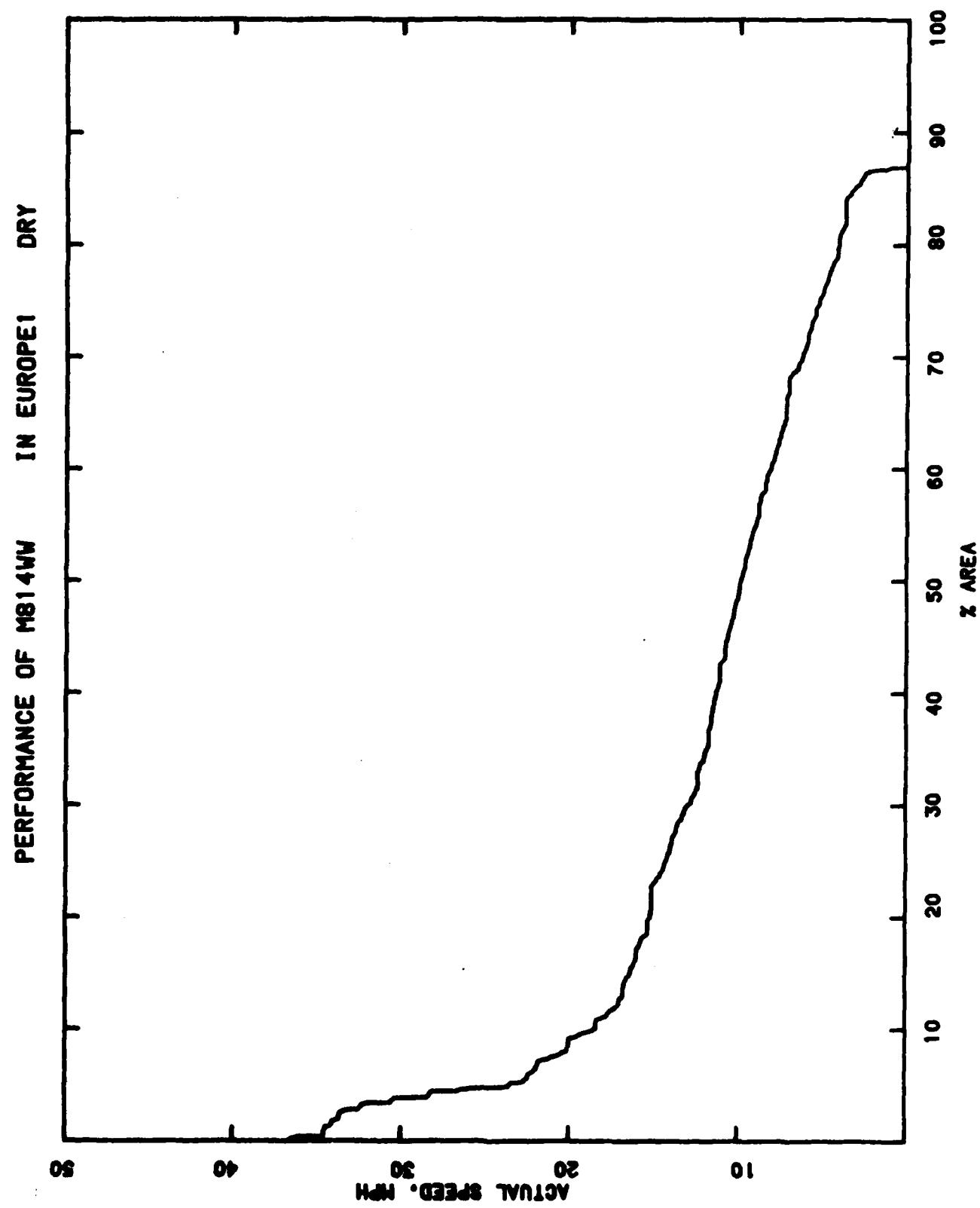


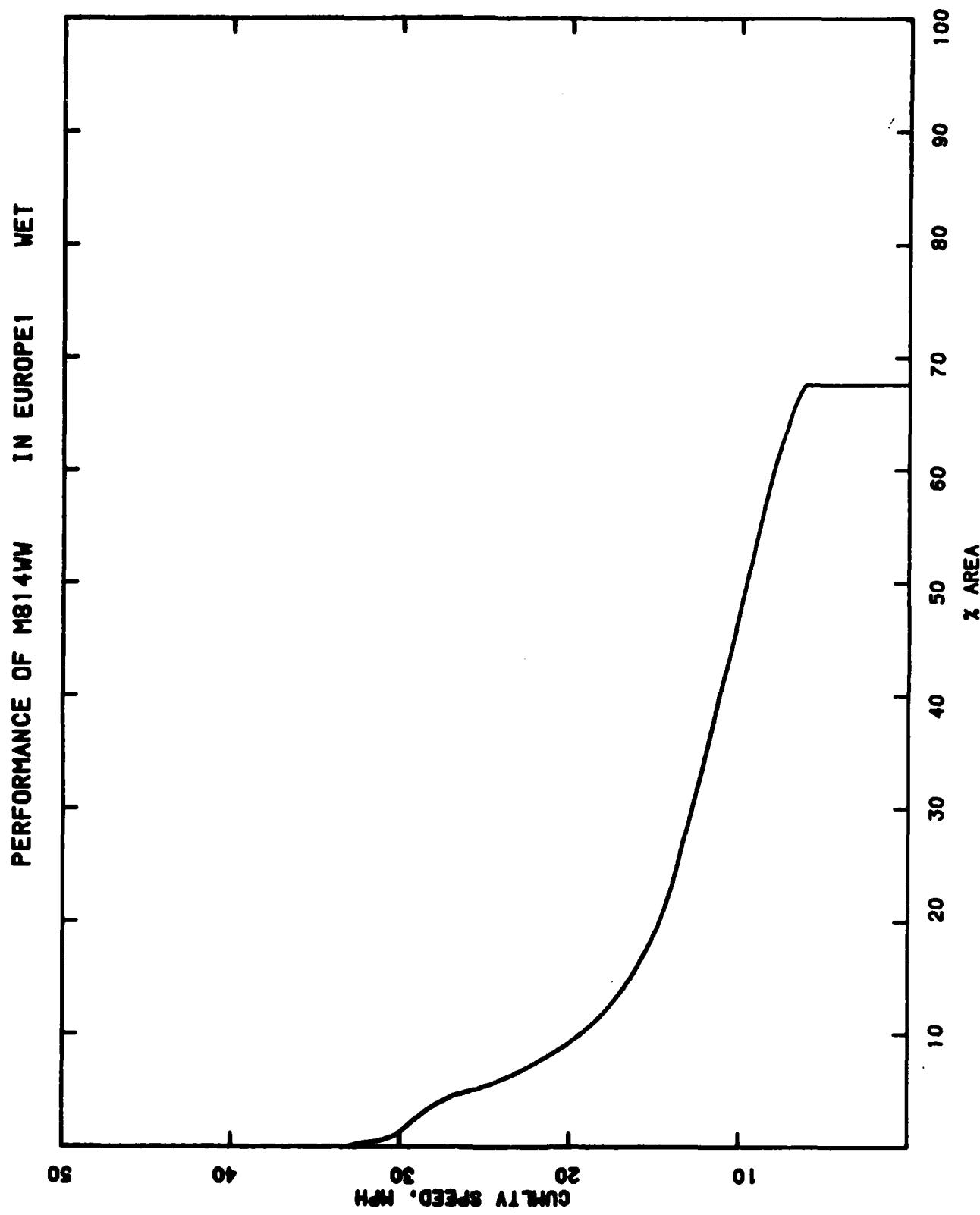
112

PERFORMANCE OF MESSAGE IN MIGRASTI NET

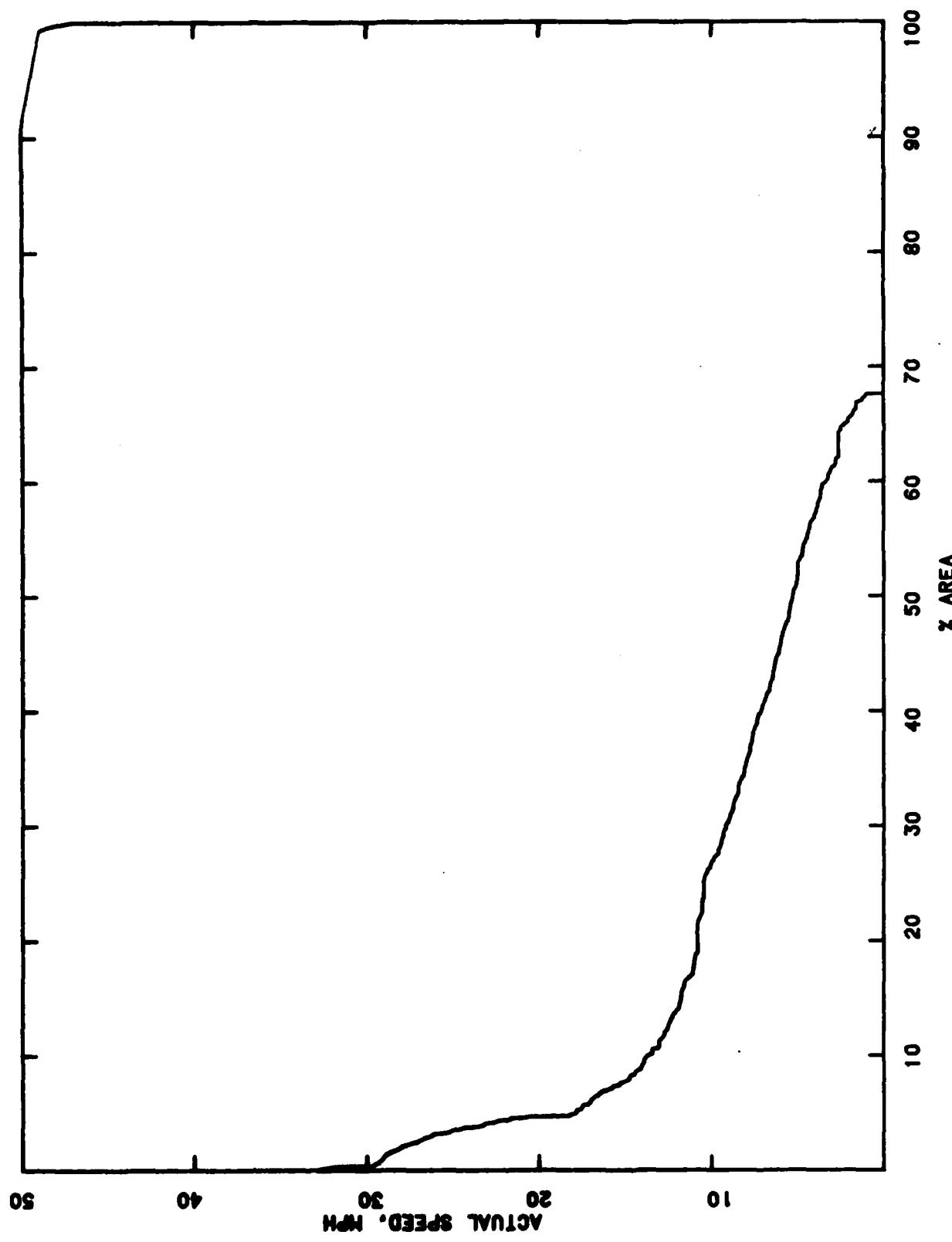




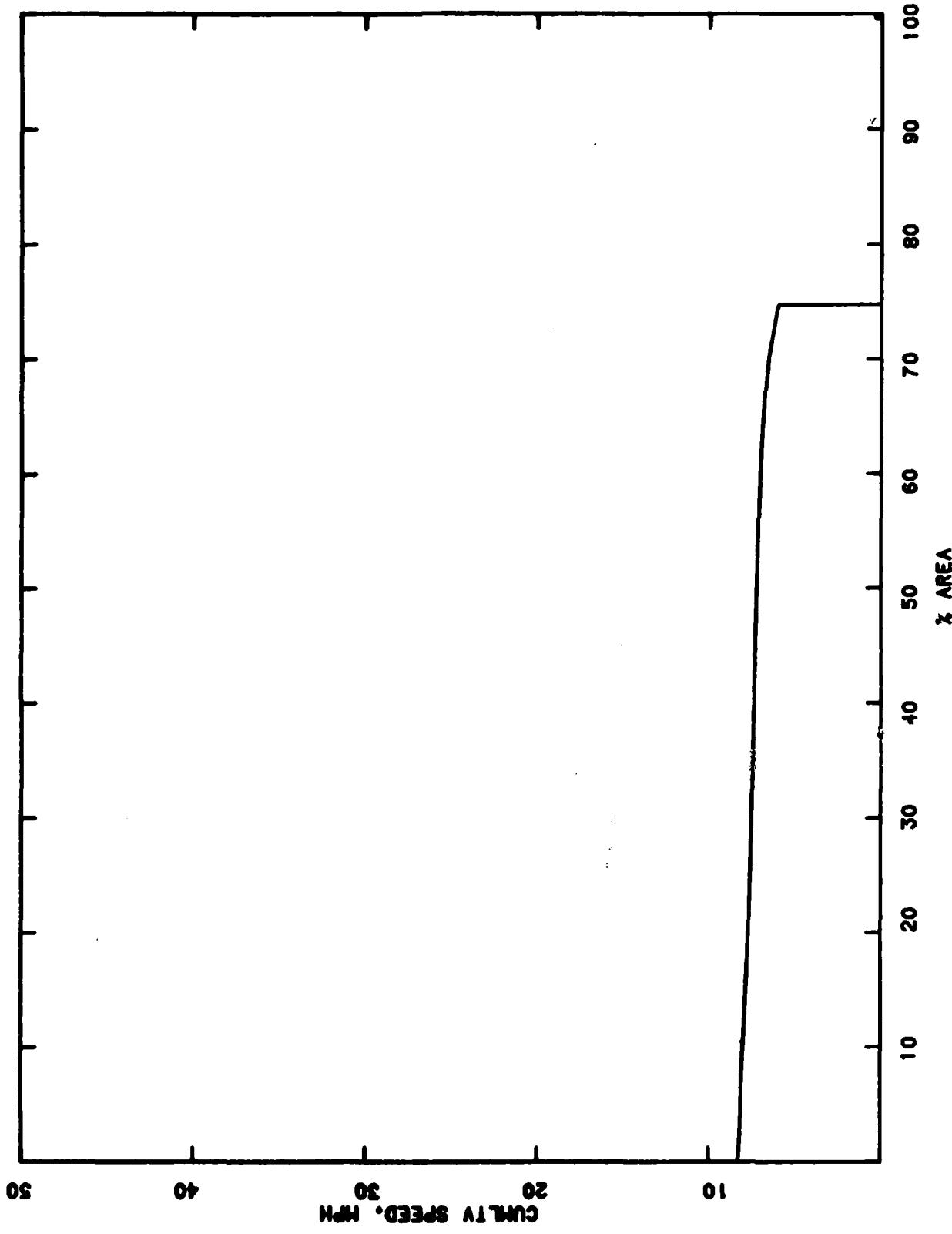




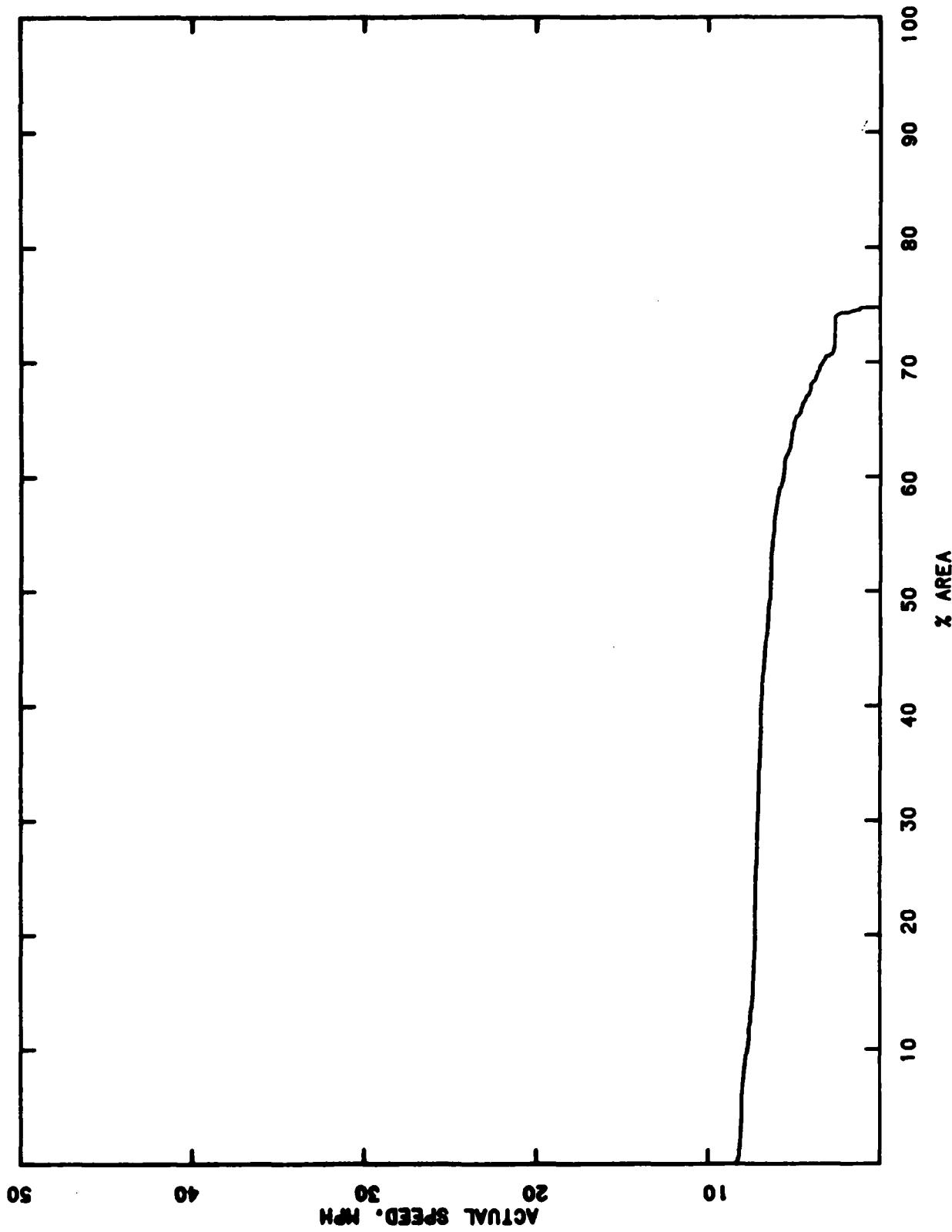
PERFORMANCE OF M814W IN EUROPE 1
WET



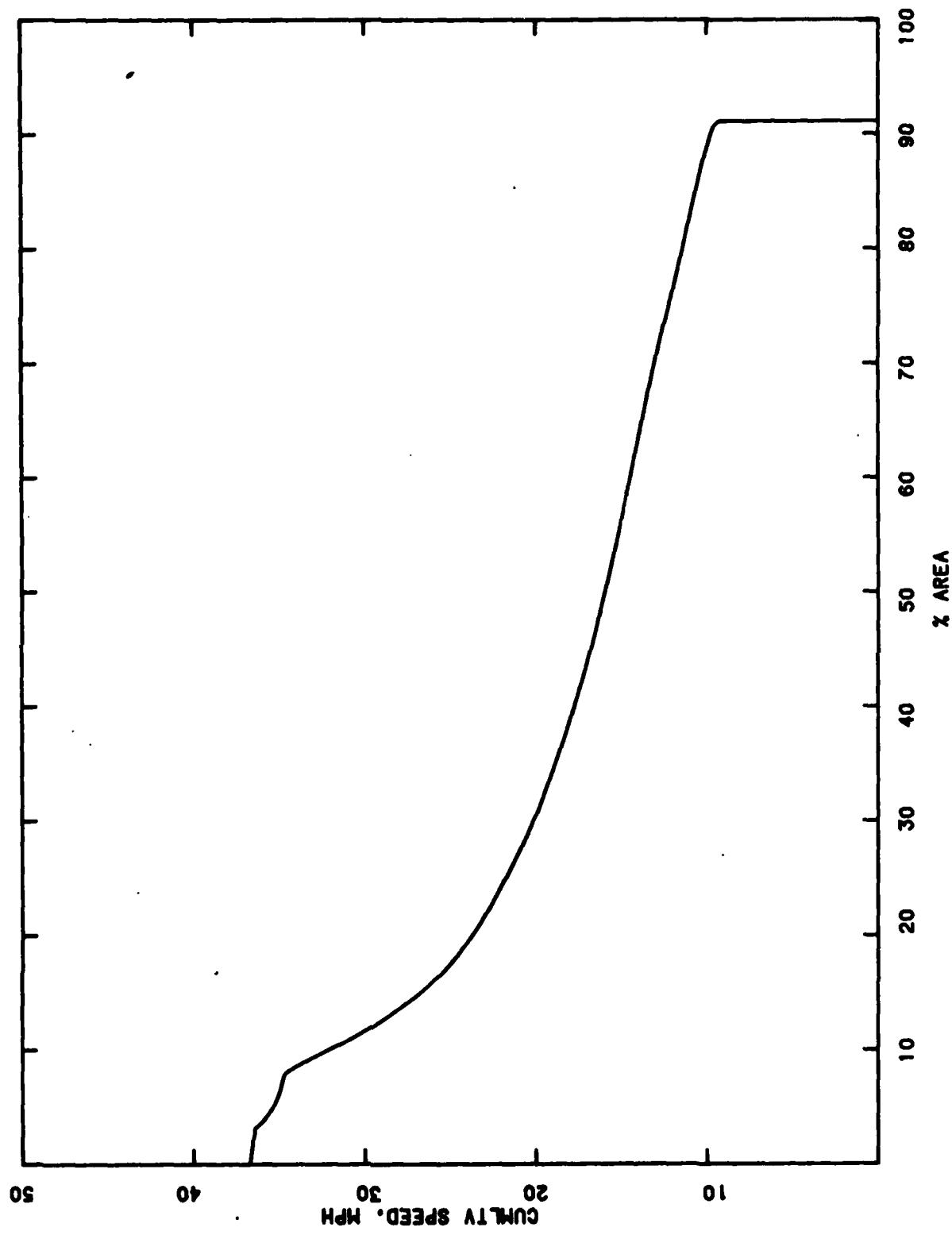
PERFORMANCE OF M814WW IN EUROPE1 SNOW



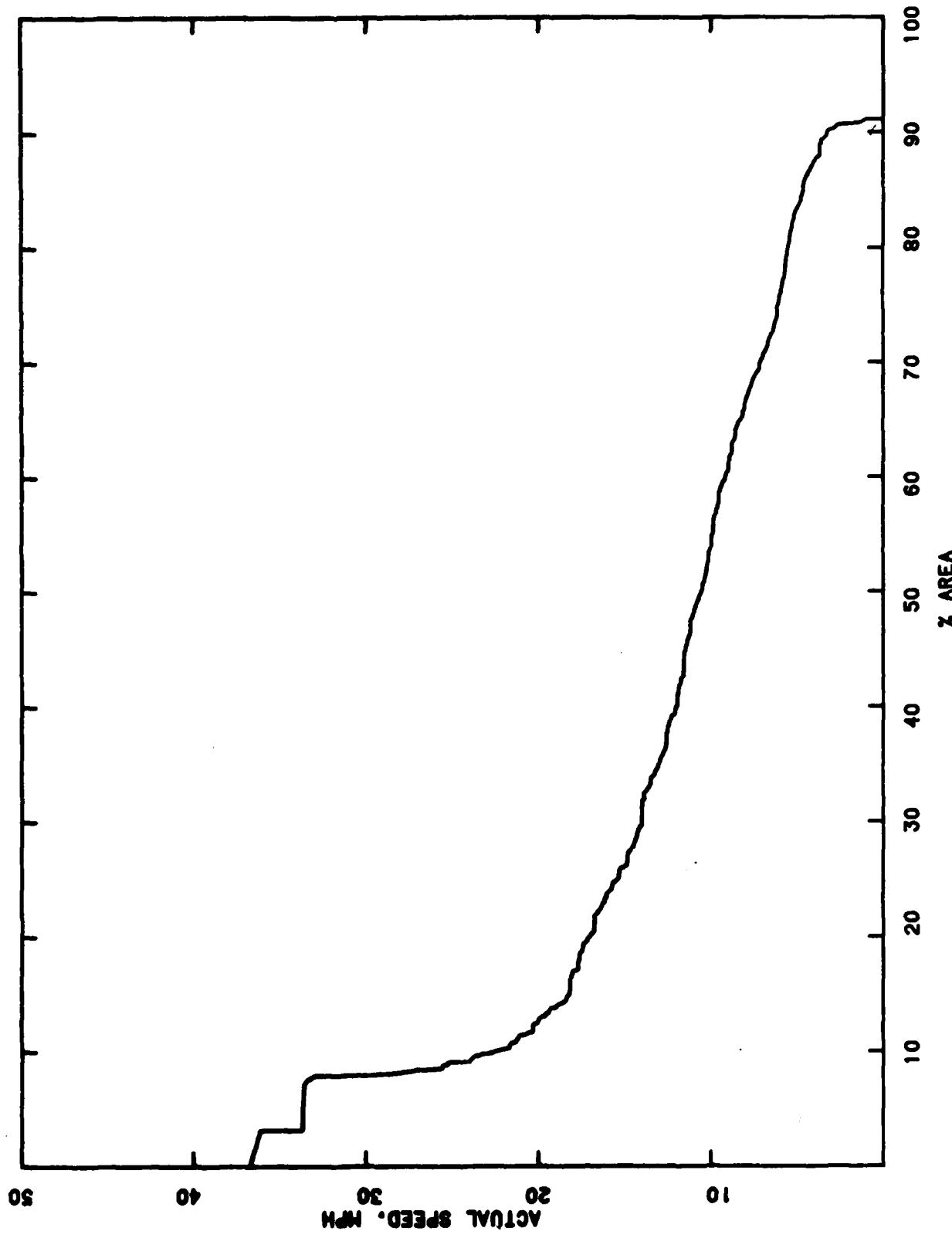
PERFORMANCE OF M814WW IN EUROPE 1 SNOW



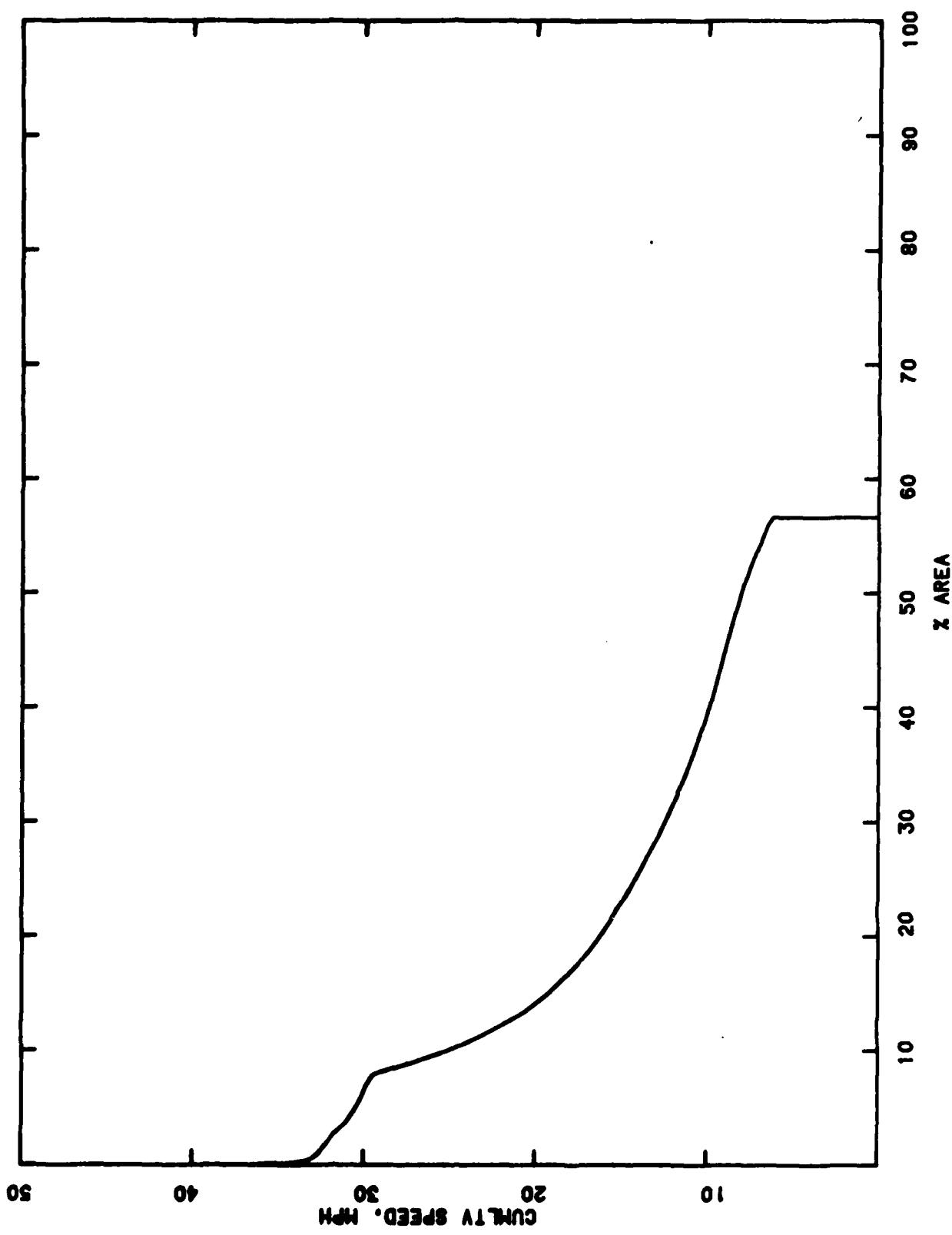
PERFORMANCE OF M814WW IN EUROPE2 DRY



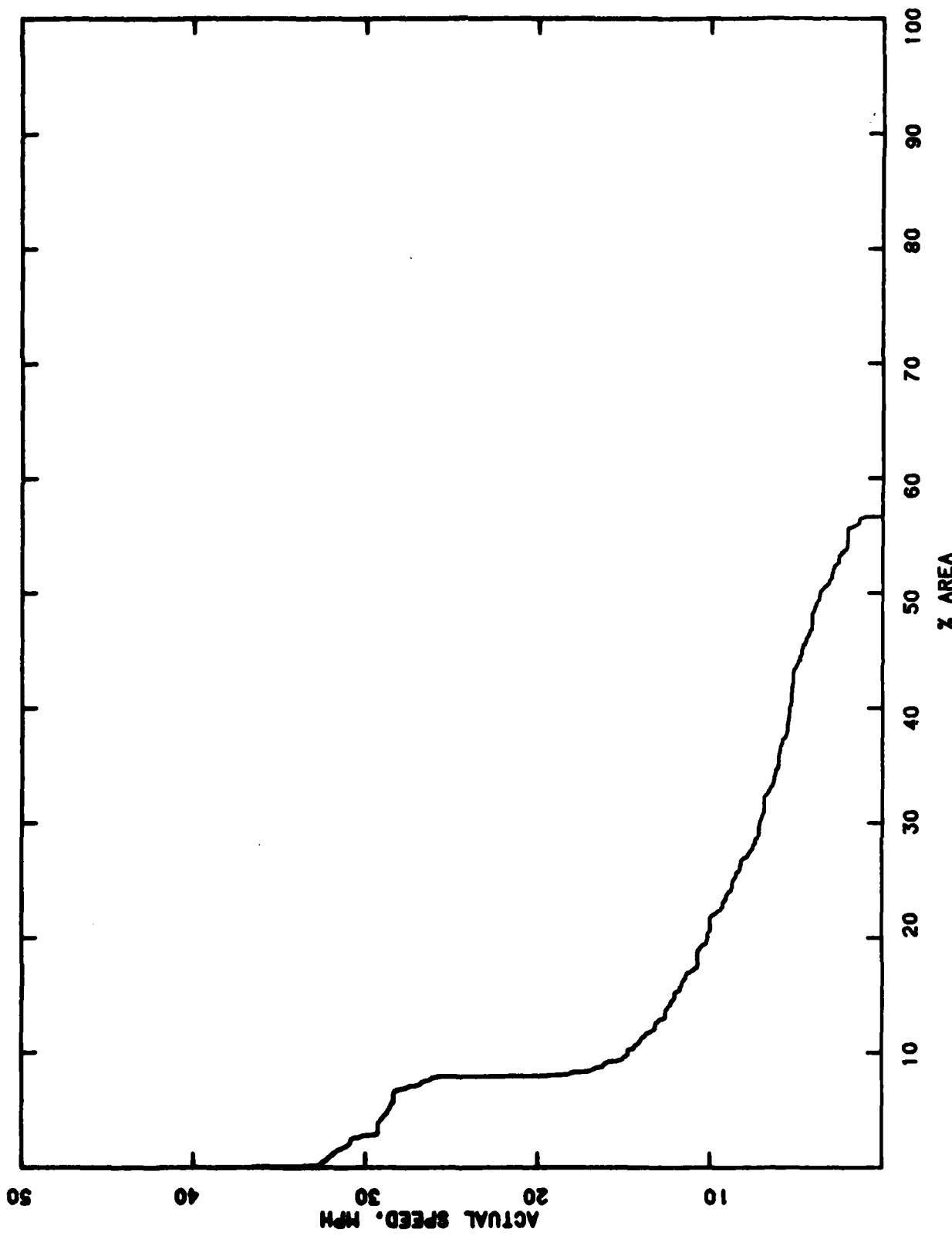
PERFORMANCE OF M814WW IN EUROPE2 DRY



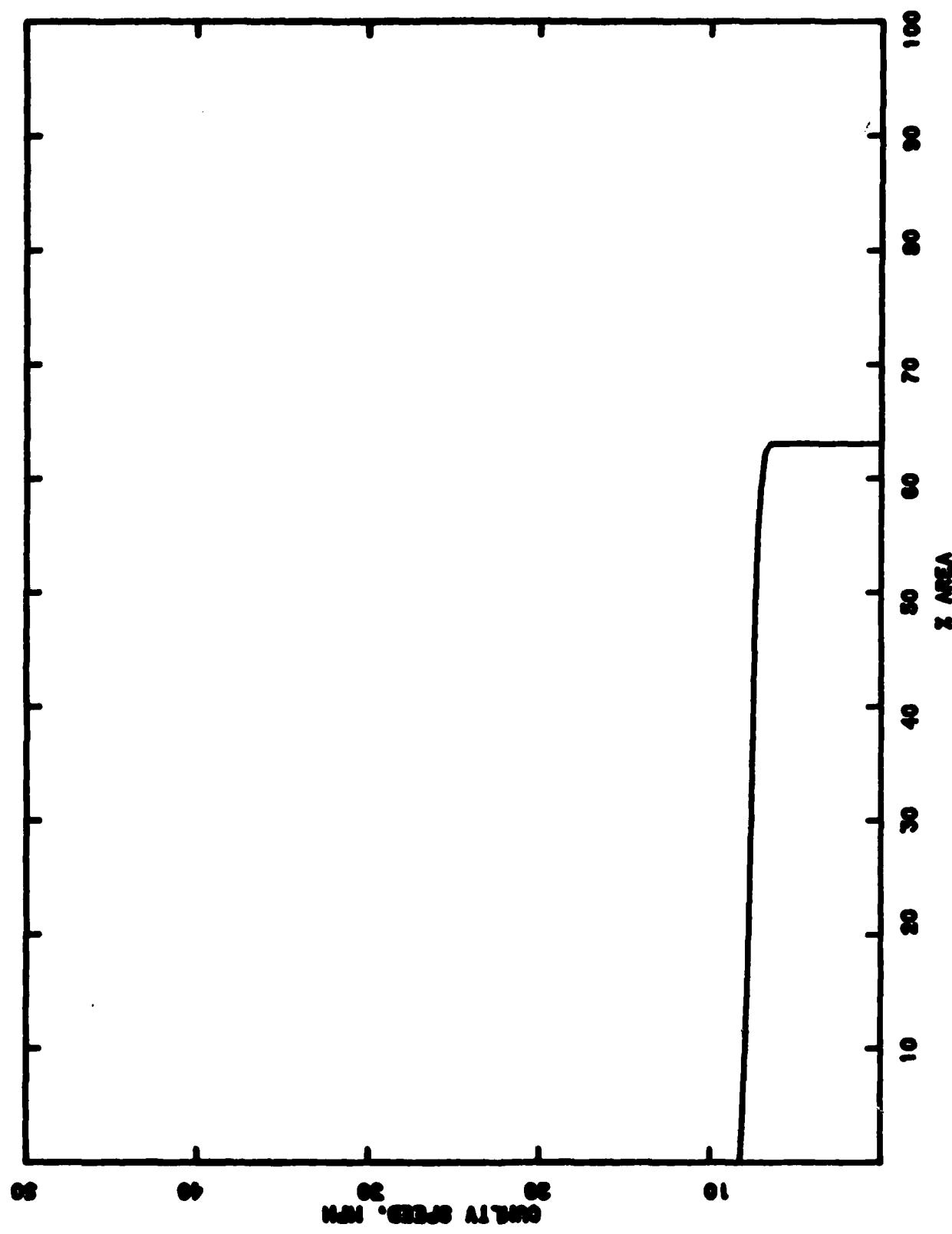
PERFORMANCE OF MB14WW IN EUROPE2 WET



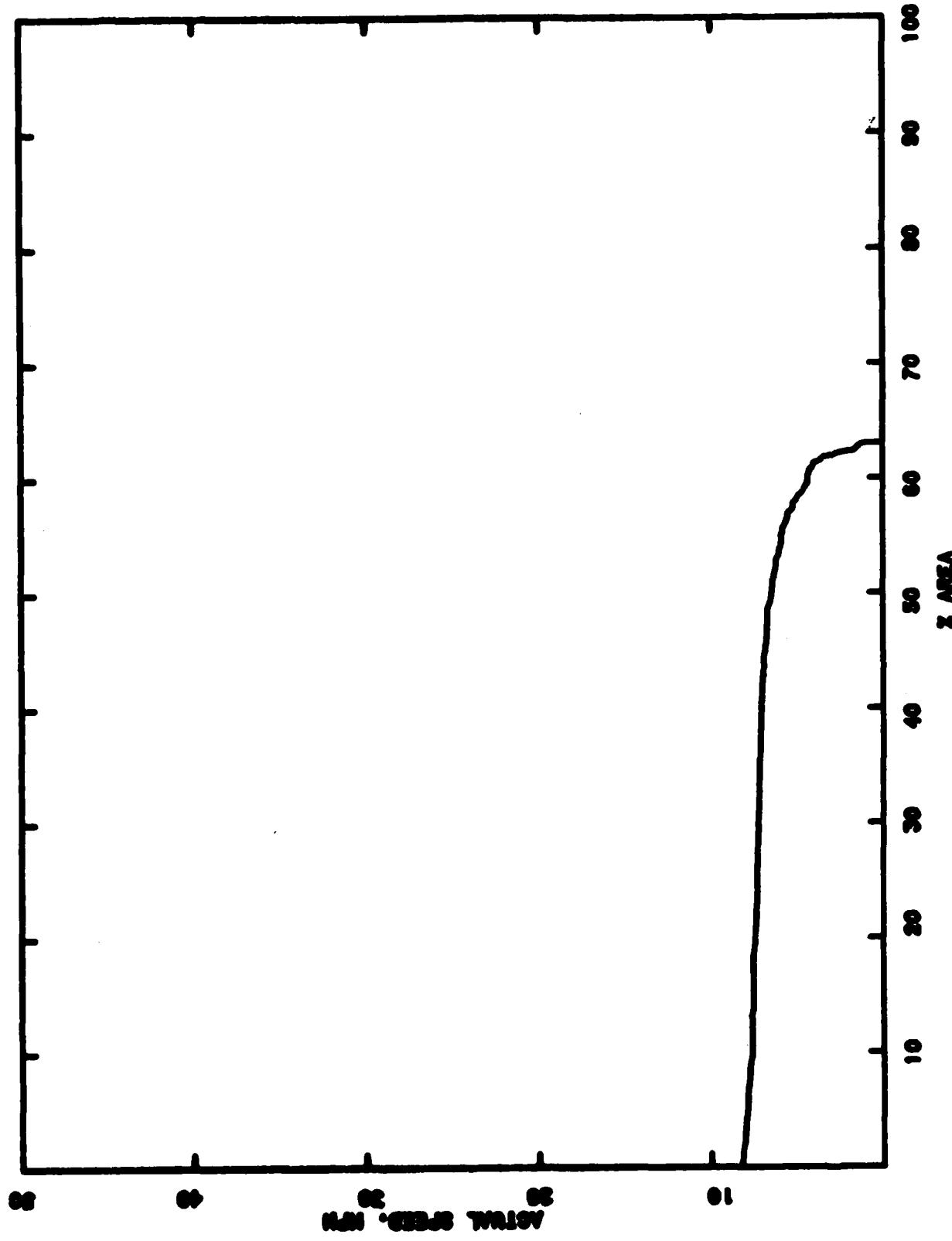
PERFORMANCE OF M814WW IN EUROPE2 WET



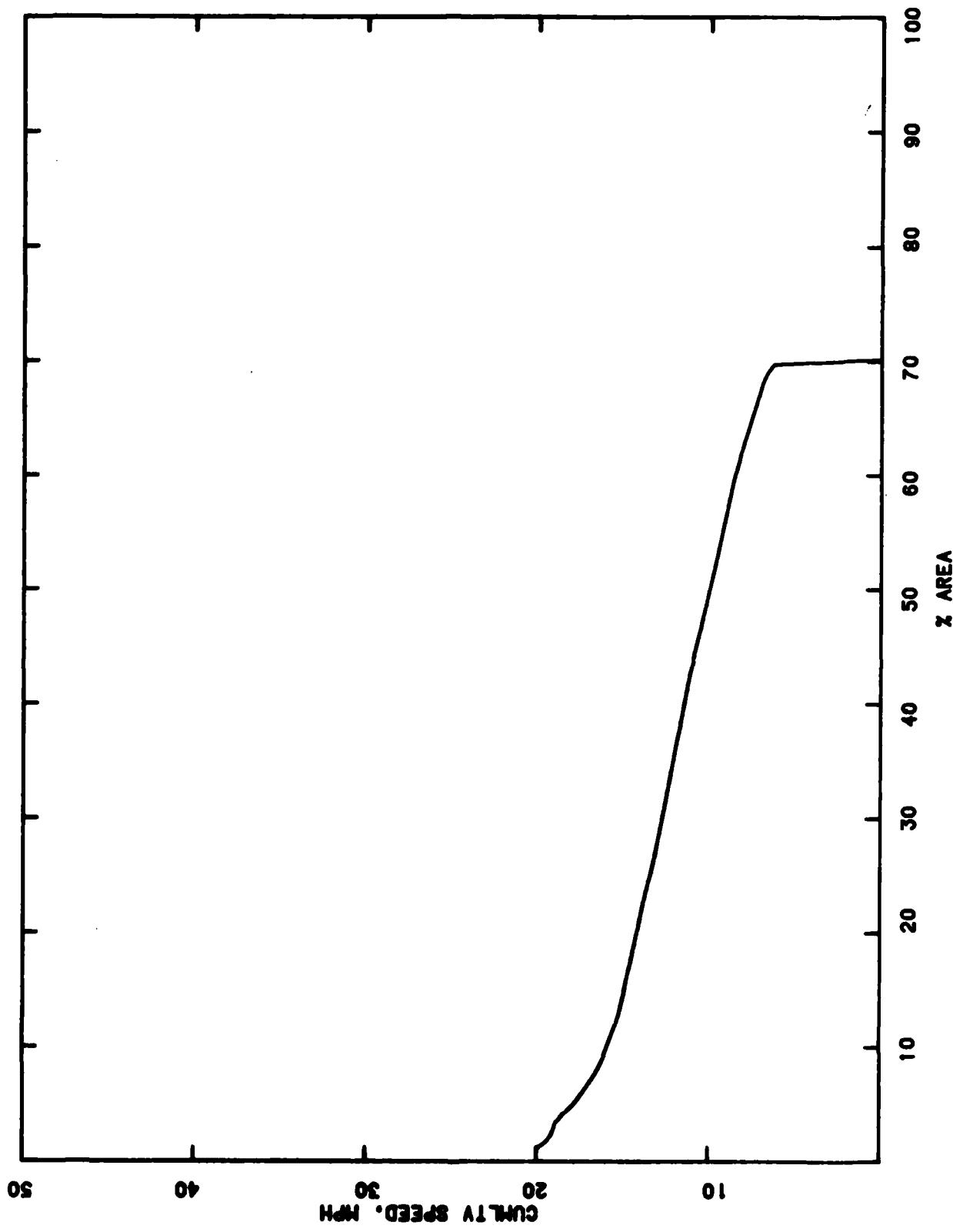
PERFORMANCE OF H814W IN EUROPE2 SHOW



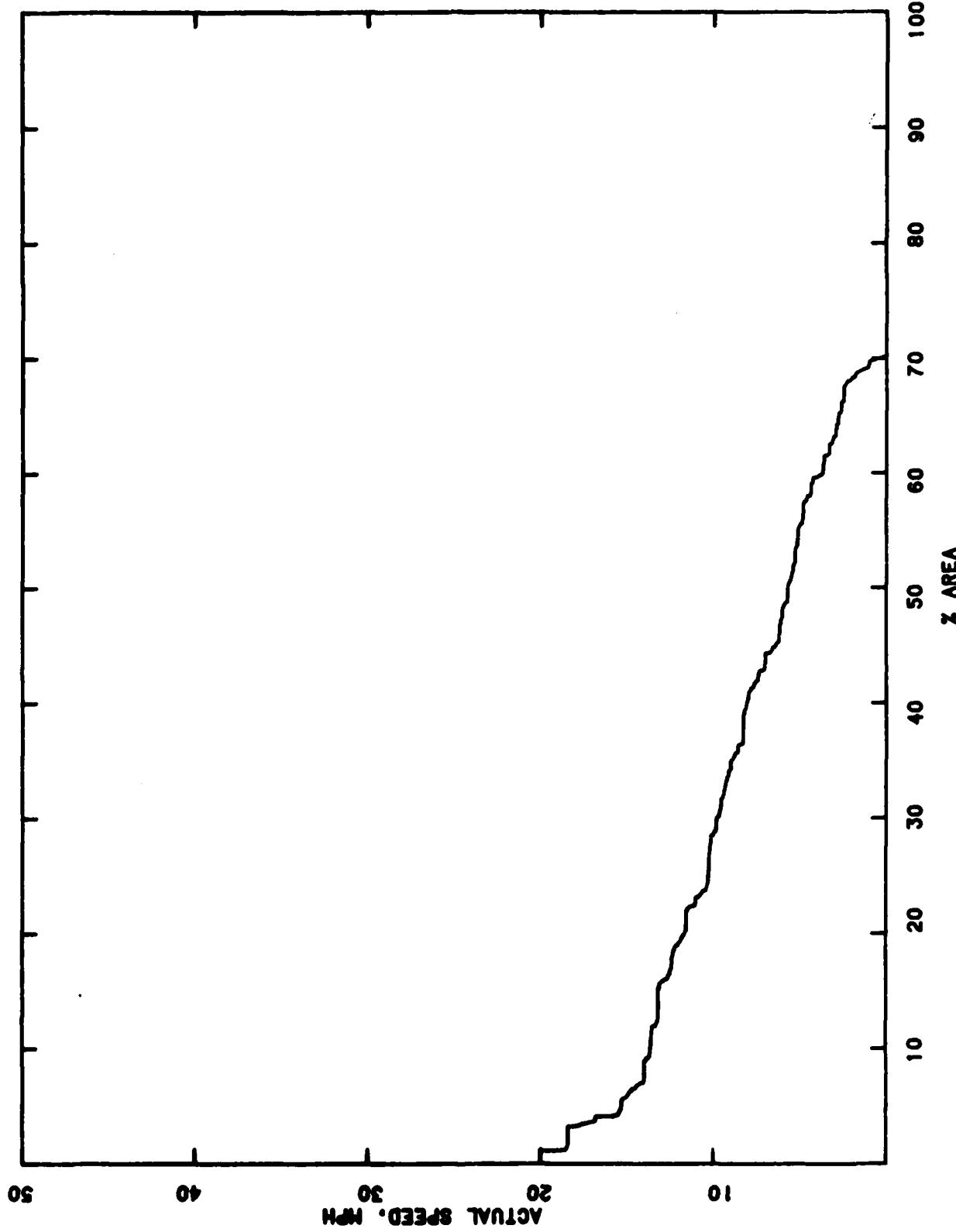
PERFORMANCE OF H814W IN EUROPE2 SHOW



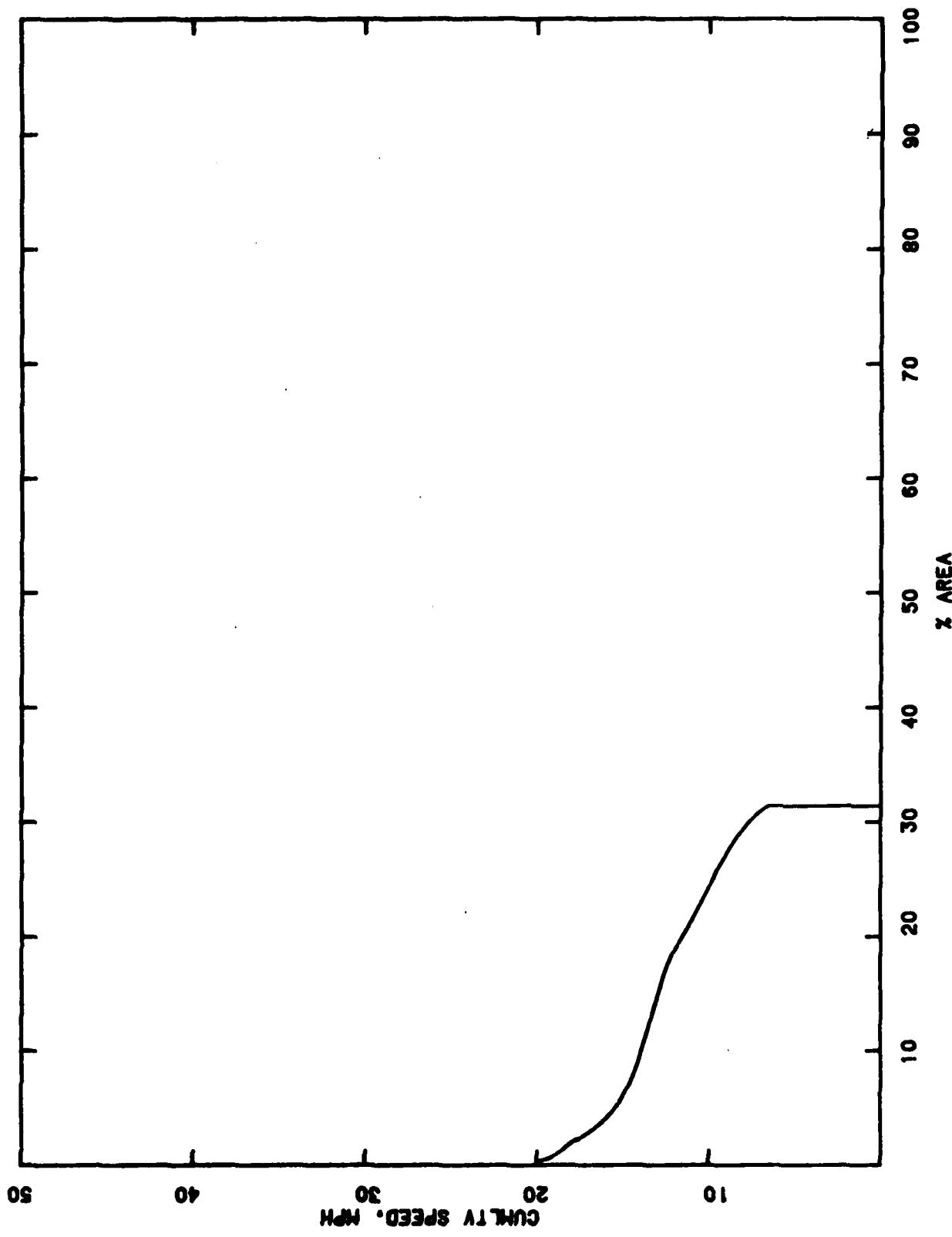
PERFORMANCE OF M81 4WW
IN MIDEAST 1 DRY



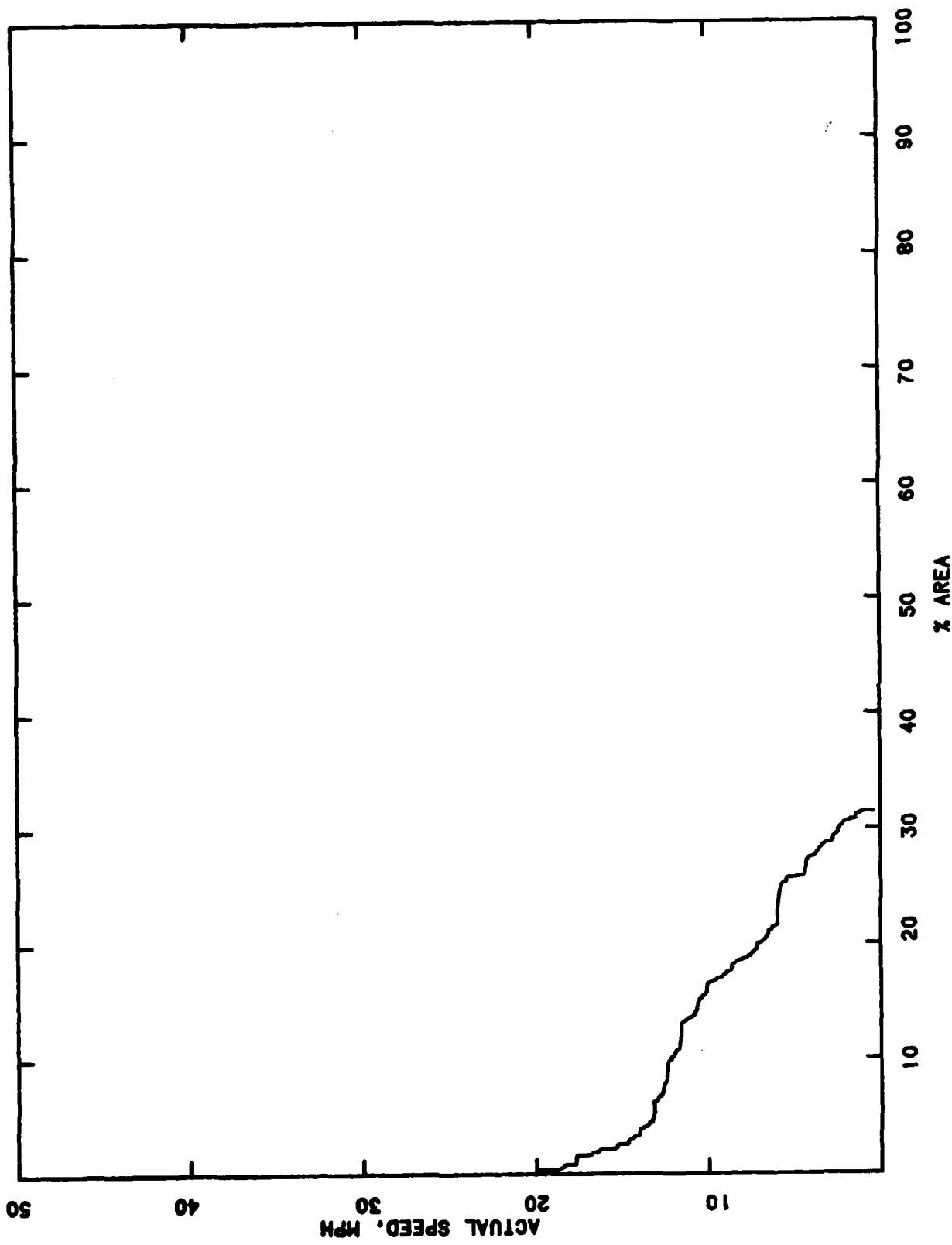
PERFORMANCE OF M814WW IN MIDEAST 1 DRY



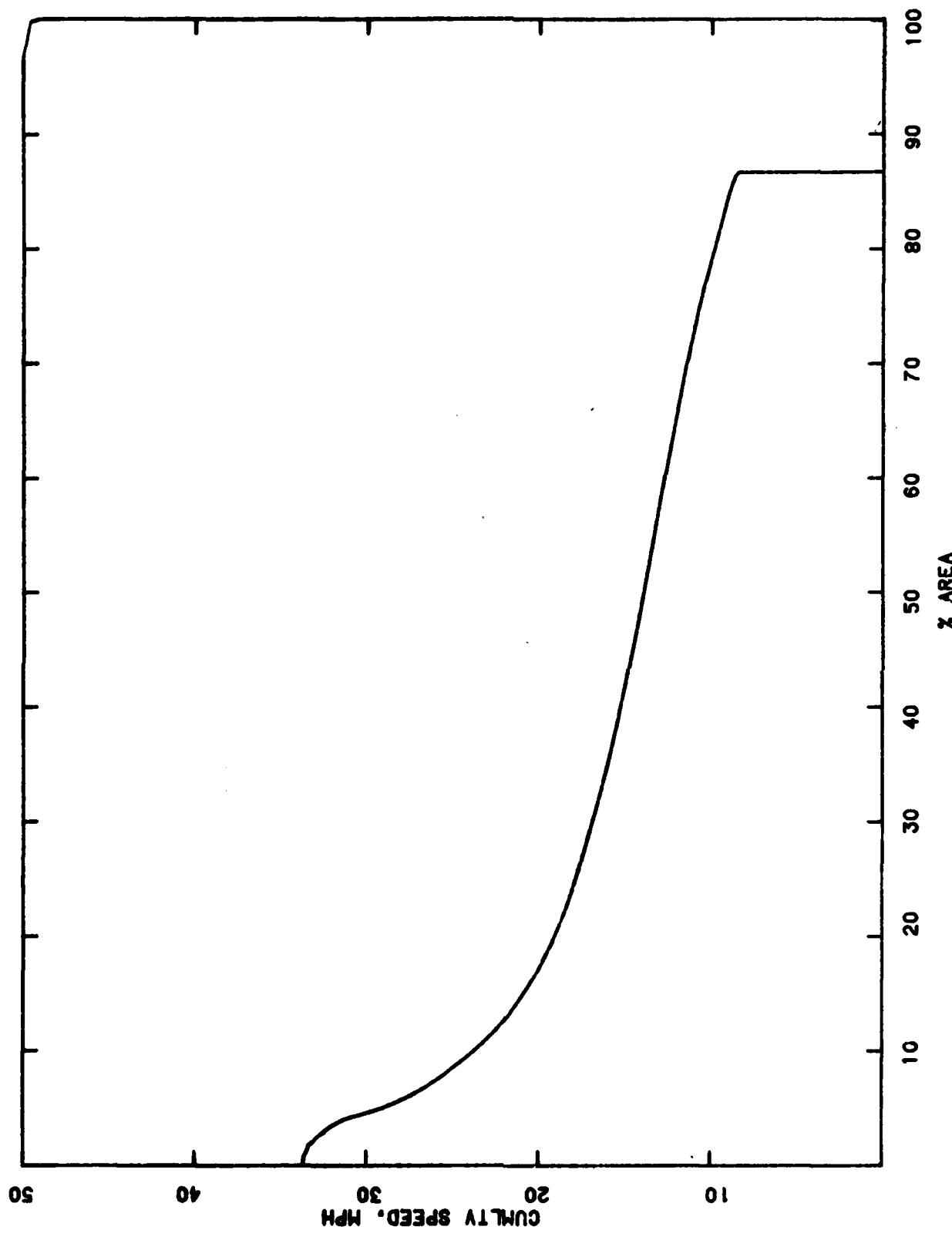
PERFORMANCE OF MB14W IN MIDEASTI WET

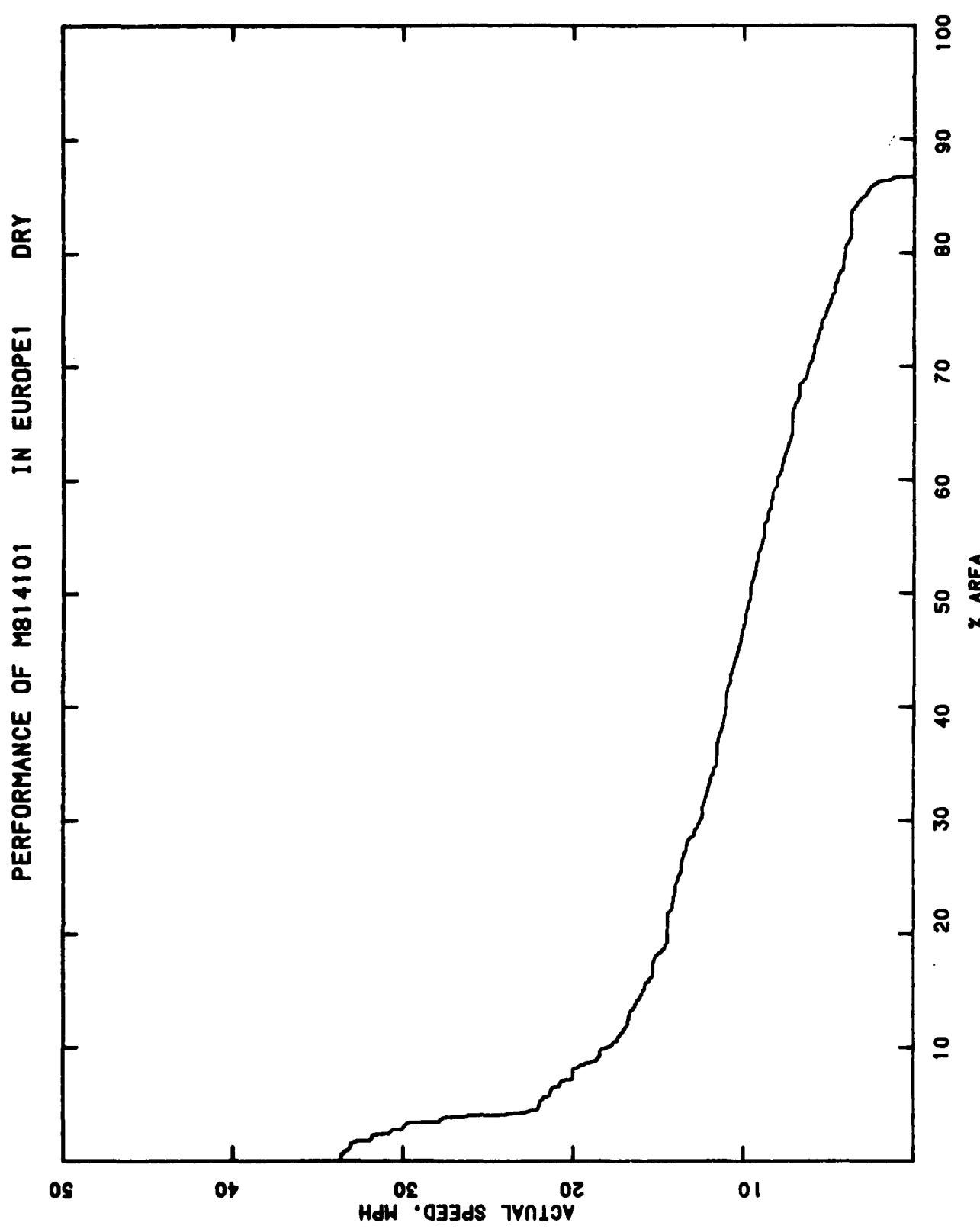


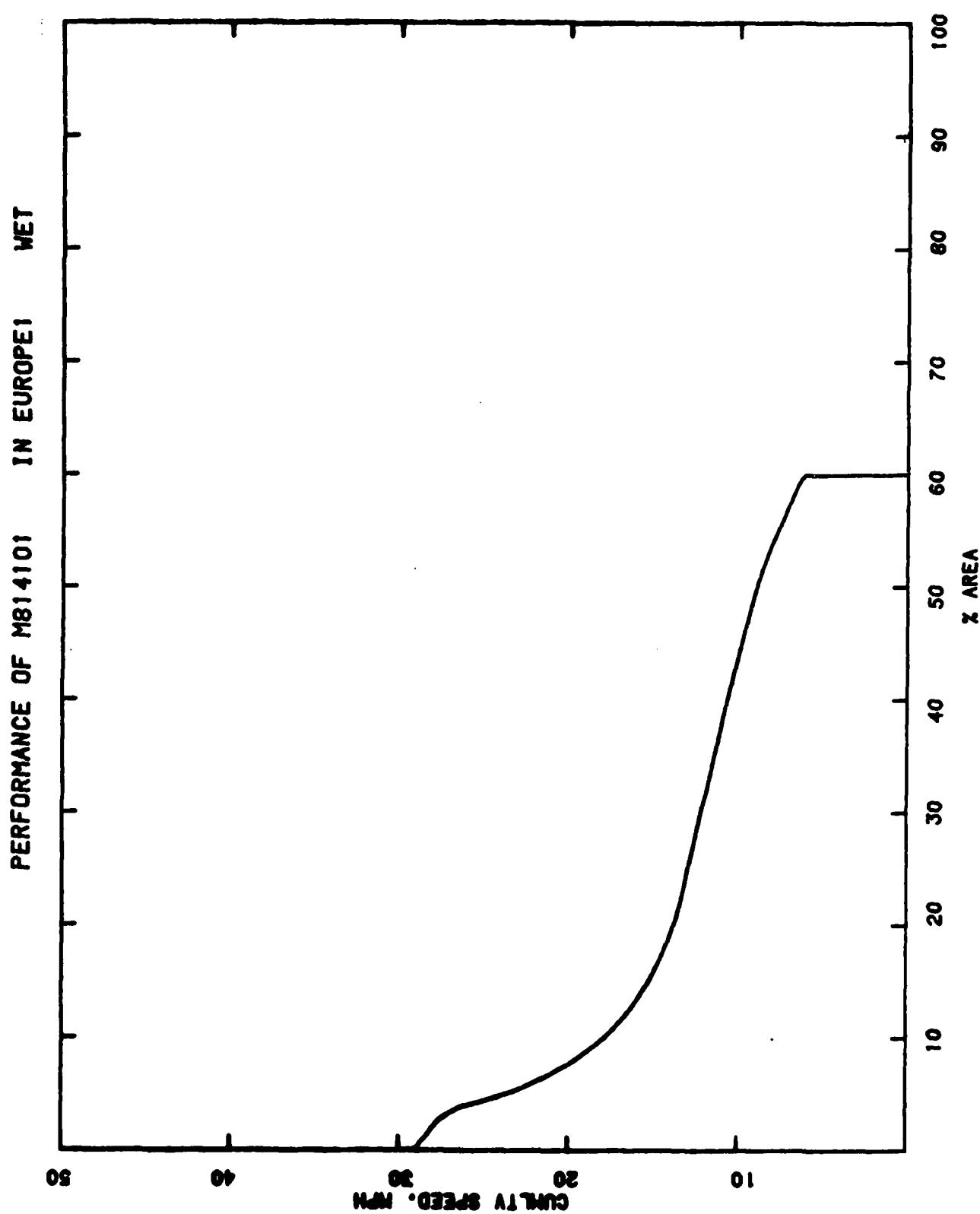
PERFORMANCE OF M81 4WW IN MIDEAST! WET



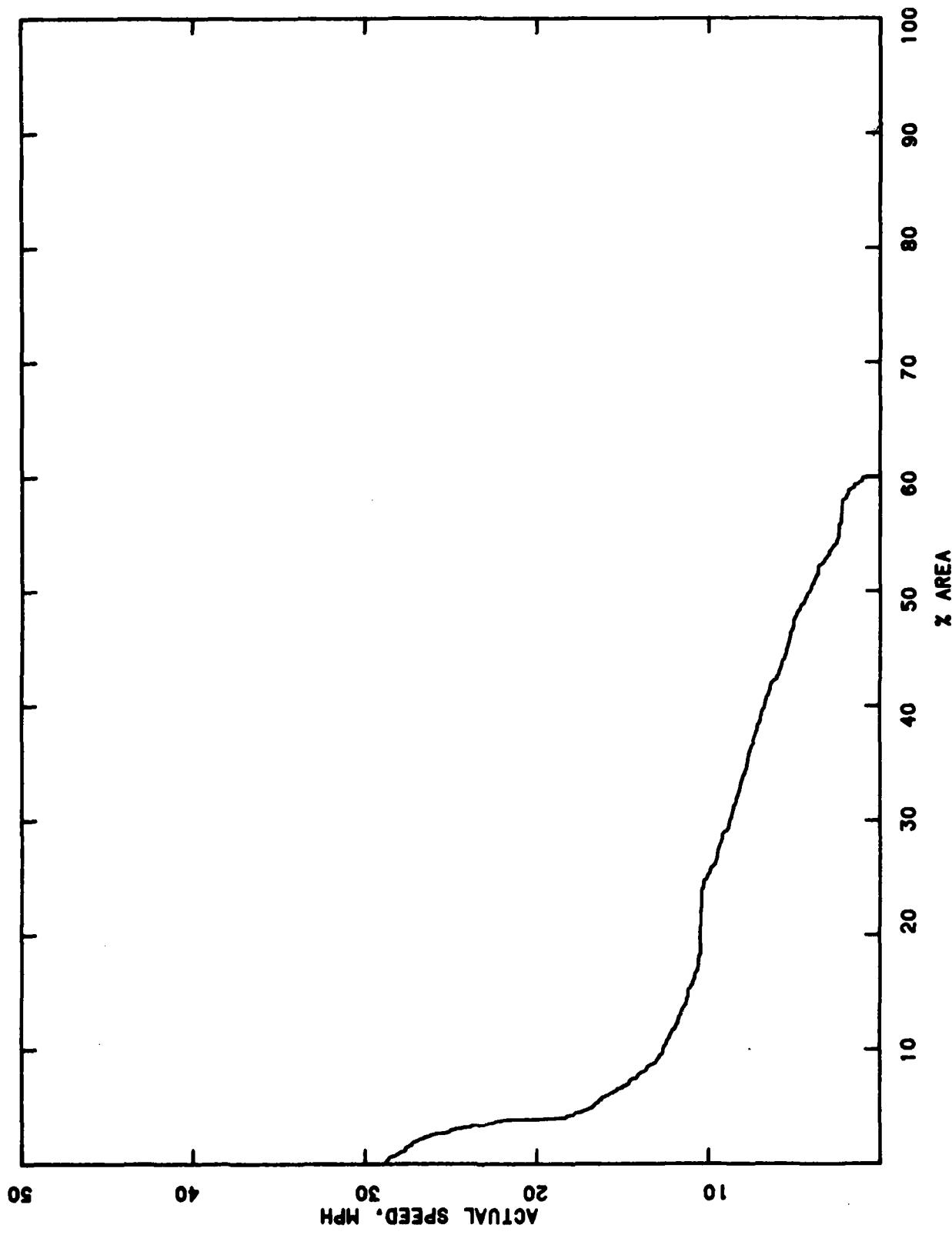
PERFORMANCE OF M814101 IN EUROPE1 DRY



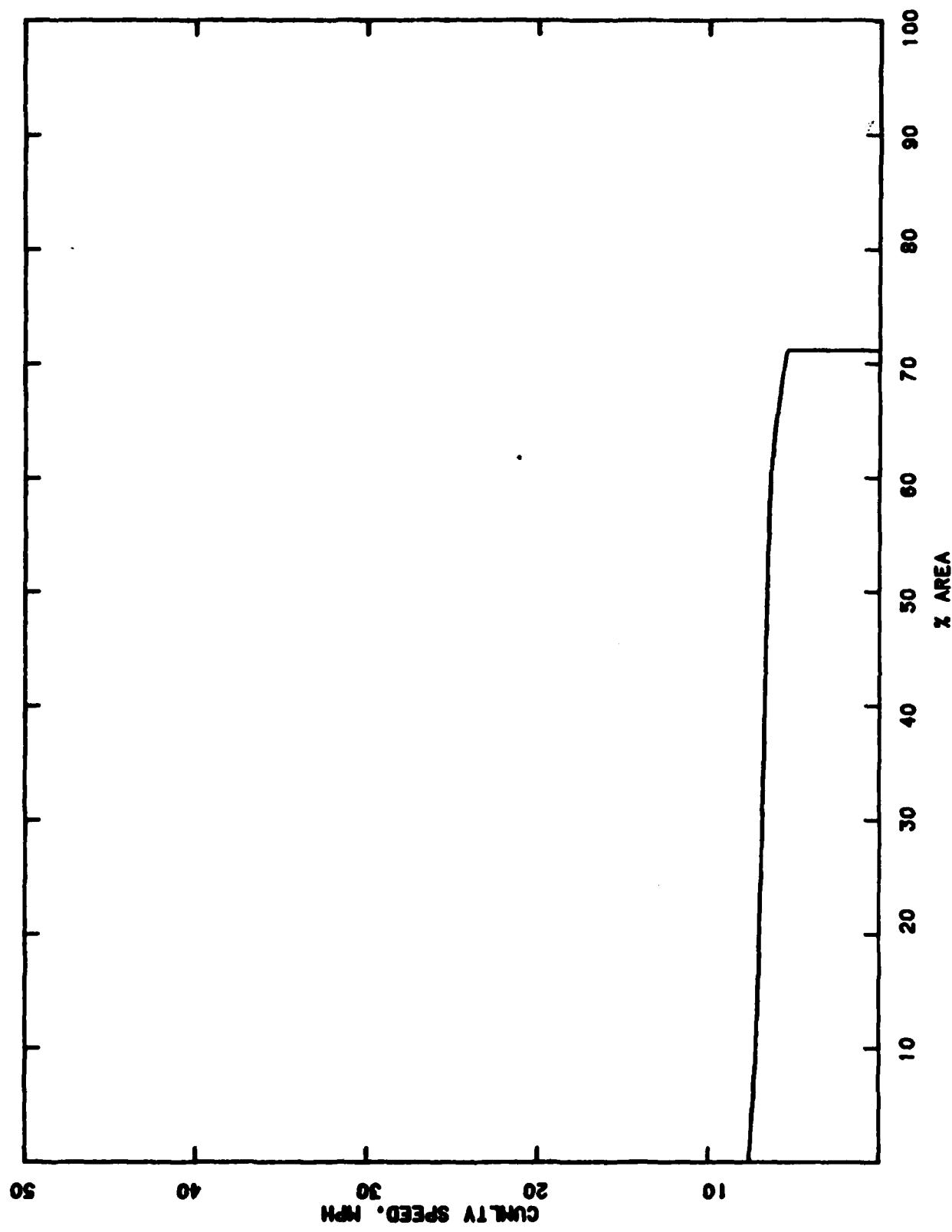




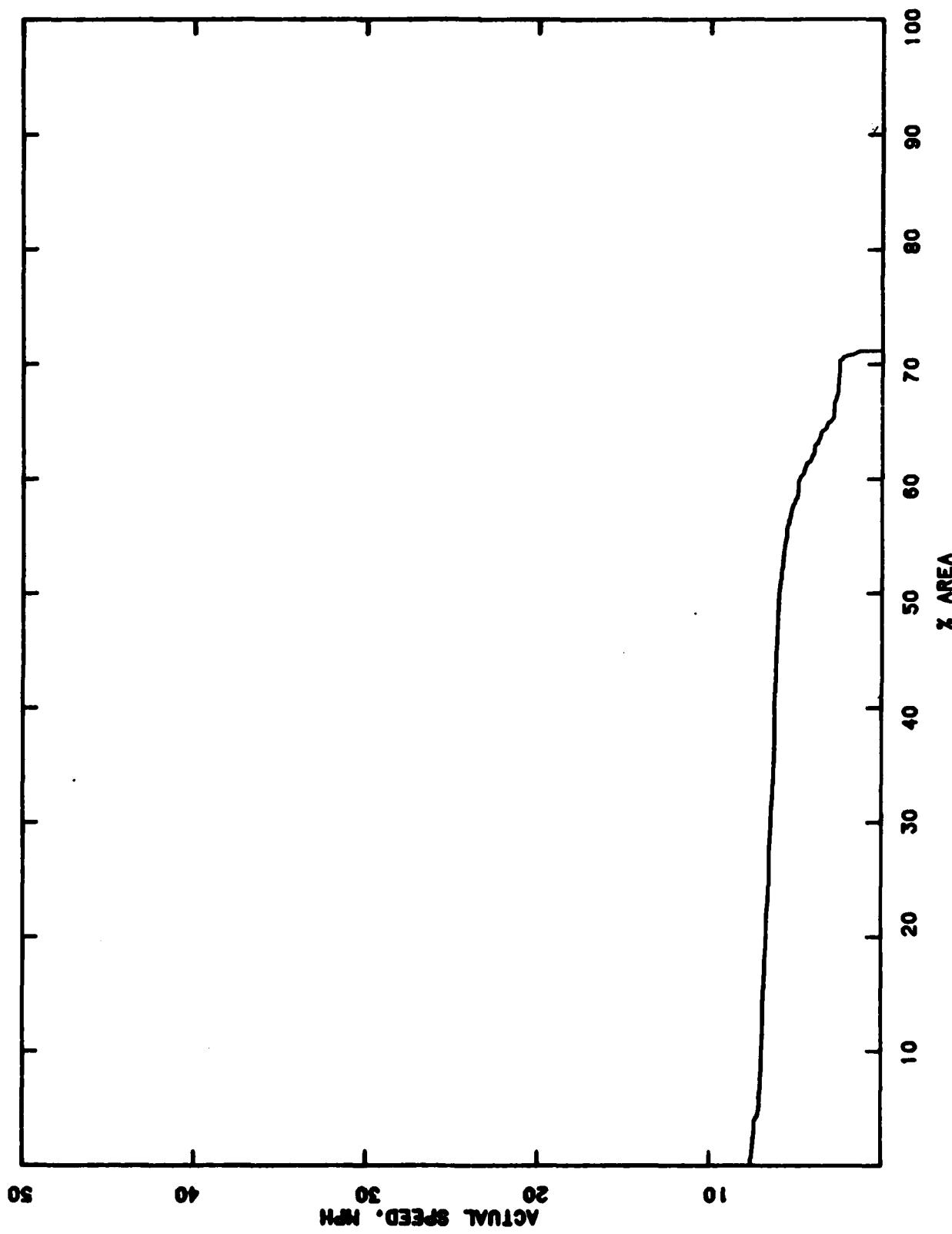
PERFORMANCE OF M814101 IN EUROPE1 WET



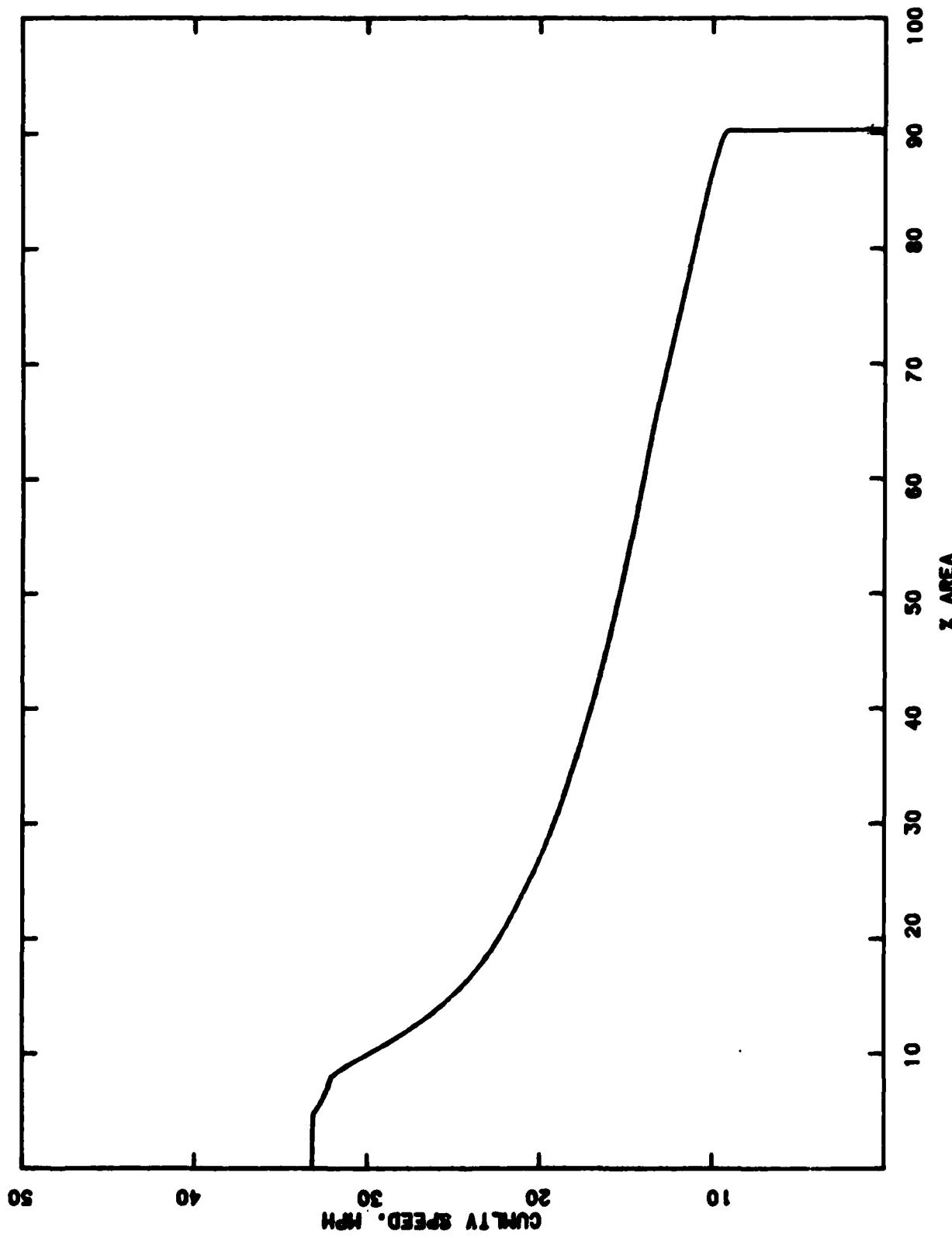
PERFORMANCE OF M814101 IN EUROPE1 SNOW



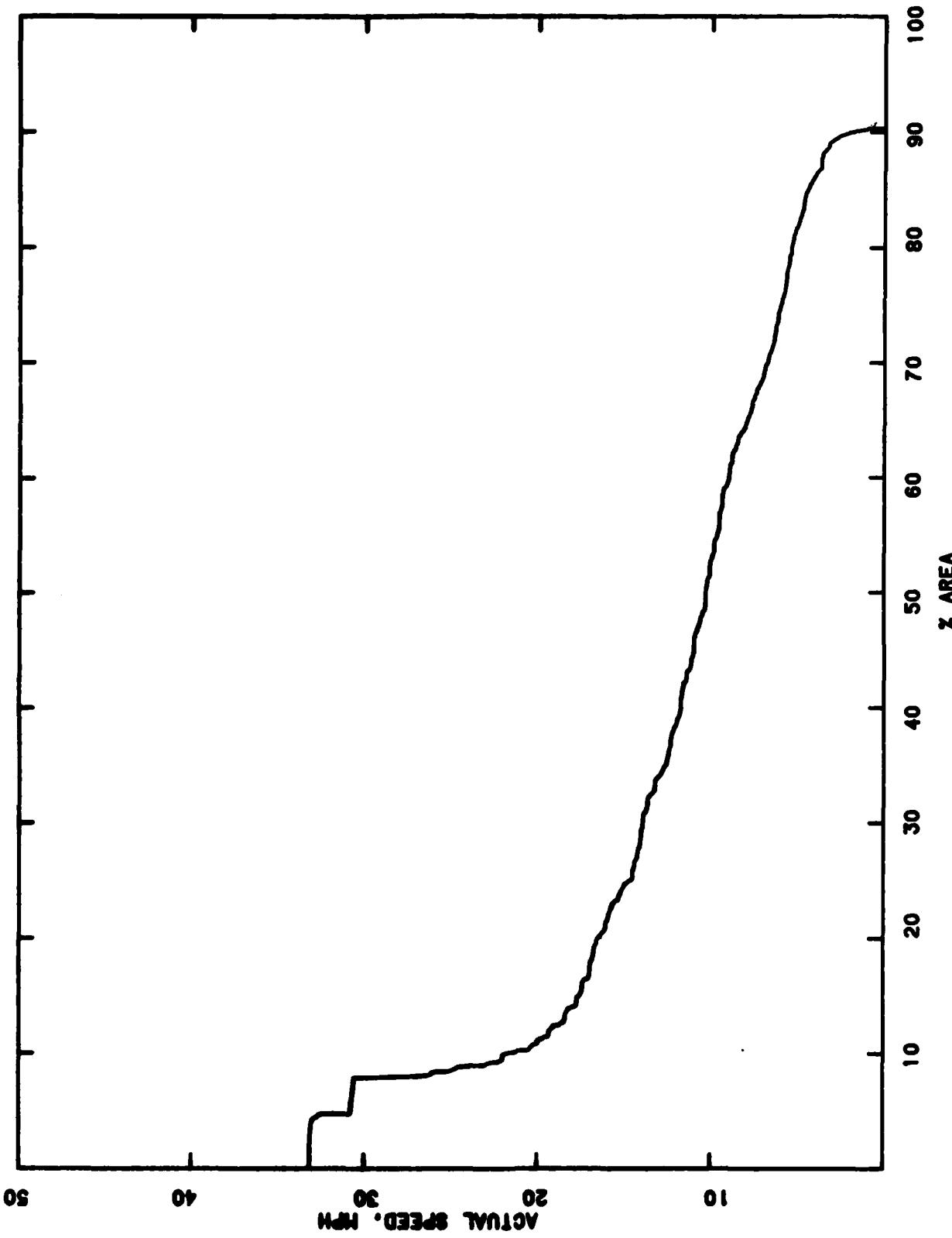
PERFORMANCE OF M81 4101 IN EUROPEI SNOW

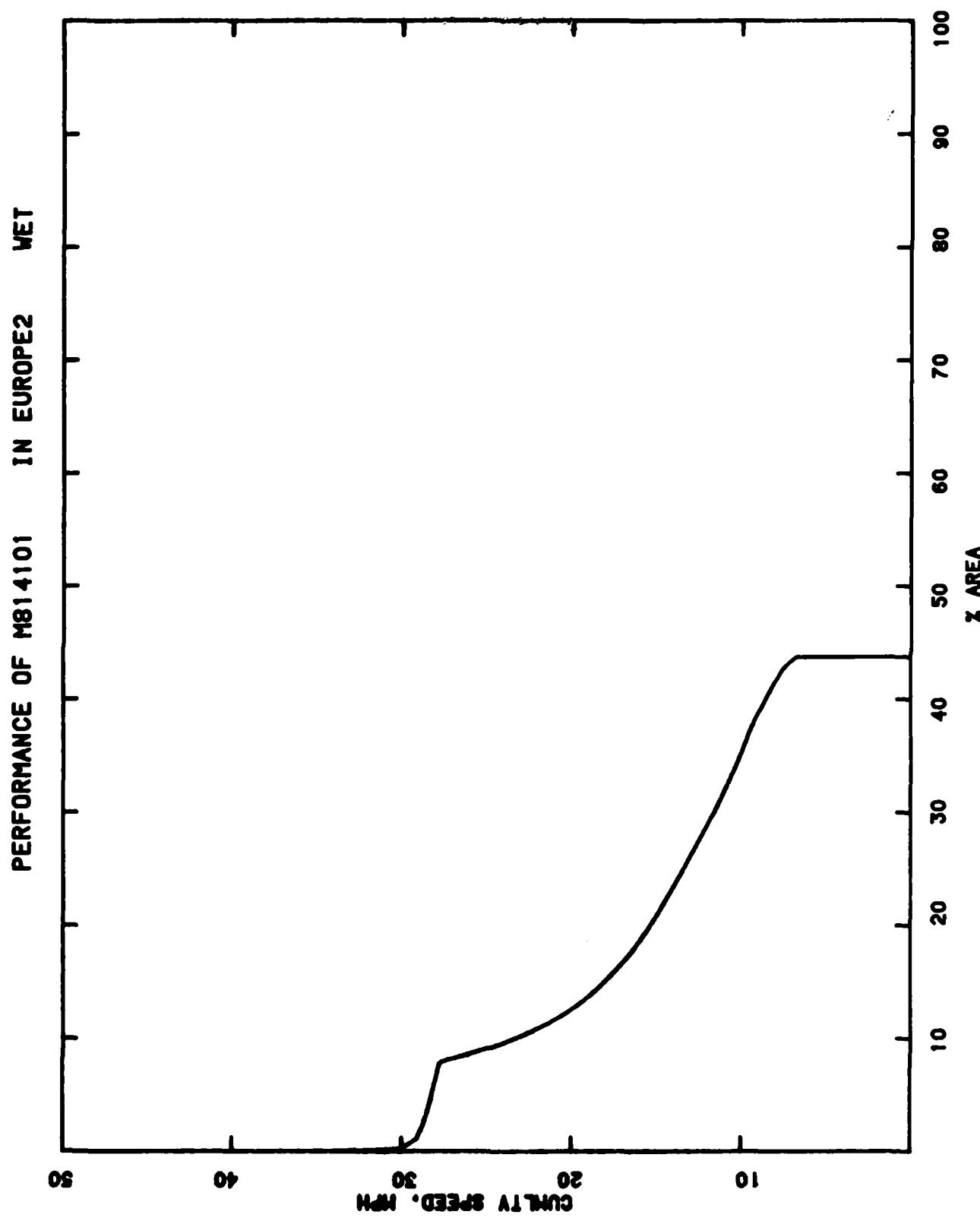


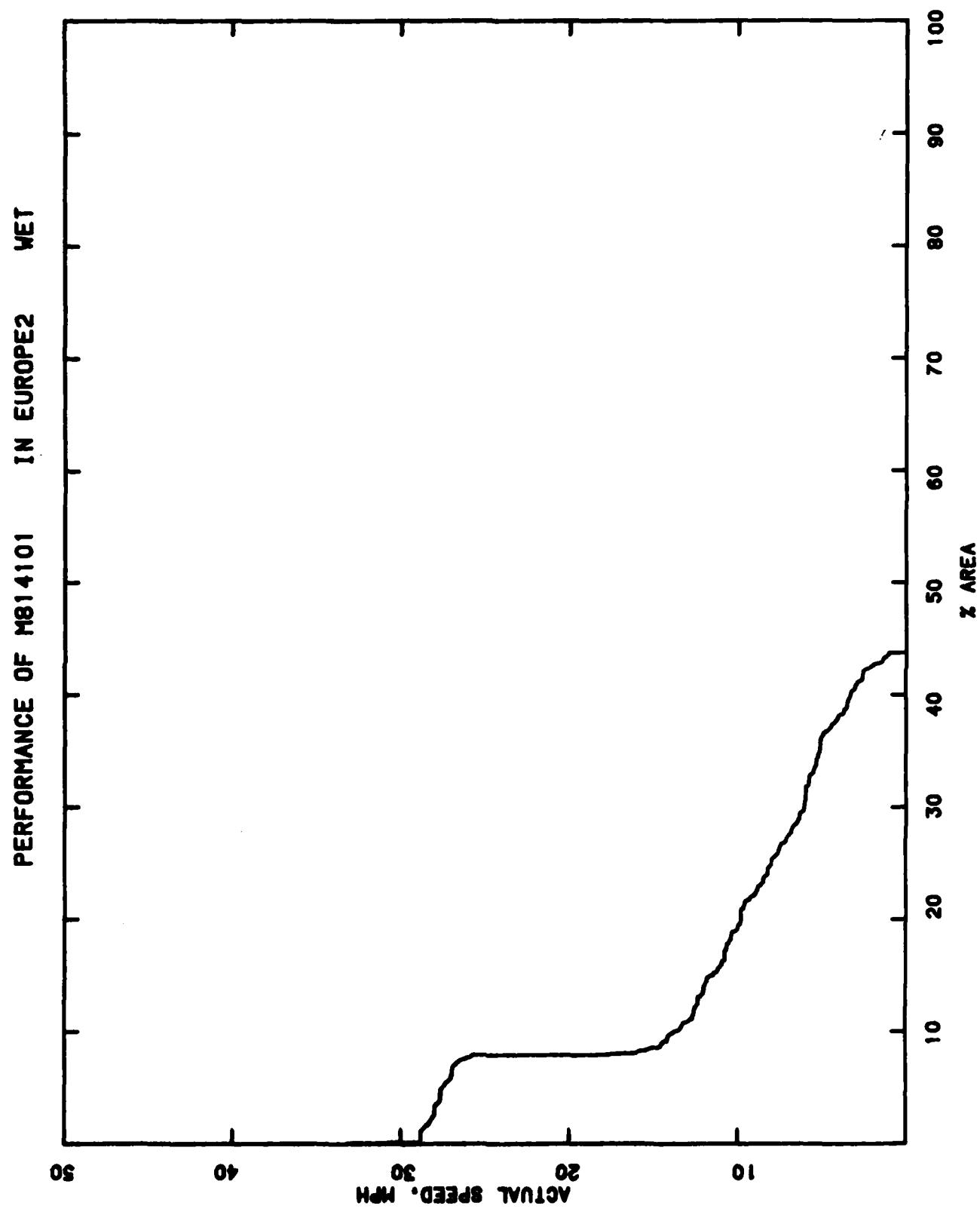
PERFORMANCE OF M814101 IN EUROPE2 DRY



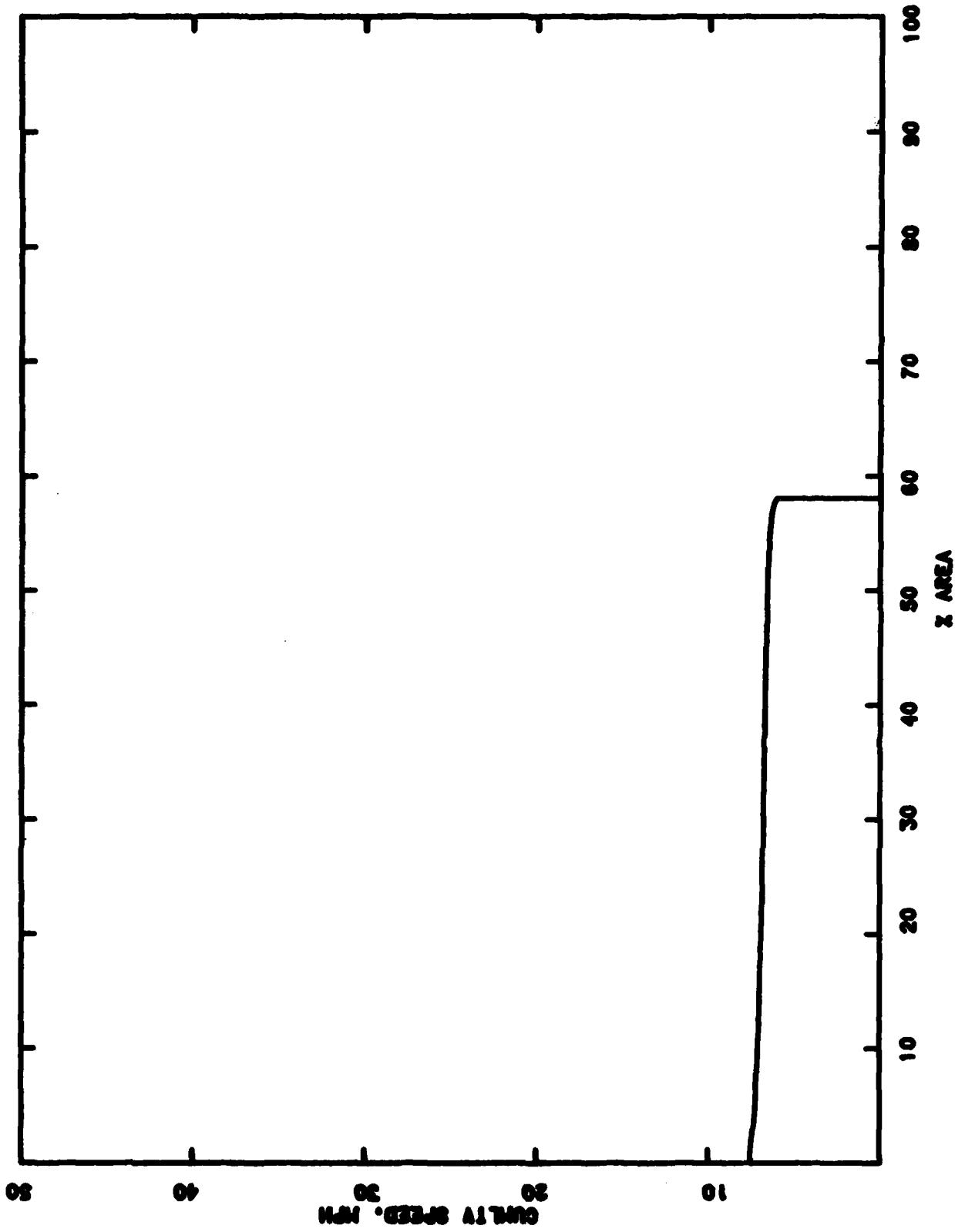
PERFORMANCE OF MB14101 IN EUROPE2 DRY





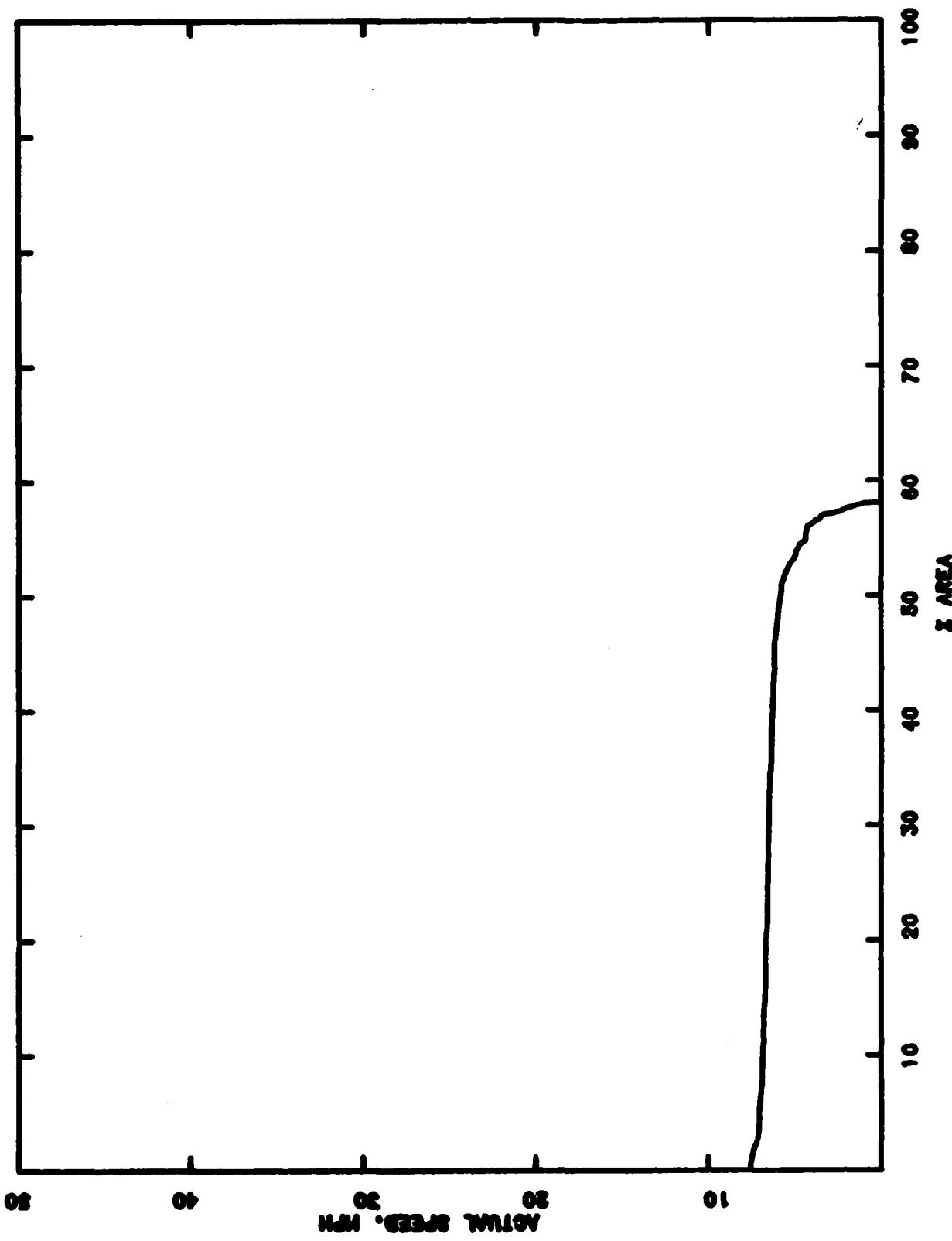


PERFORMANCE OF M814101 IN EUROPE2 SNOW

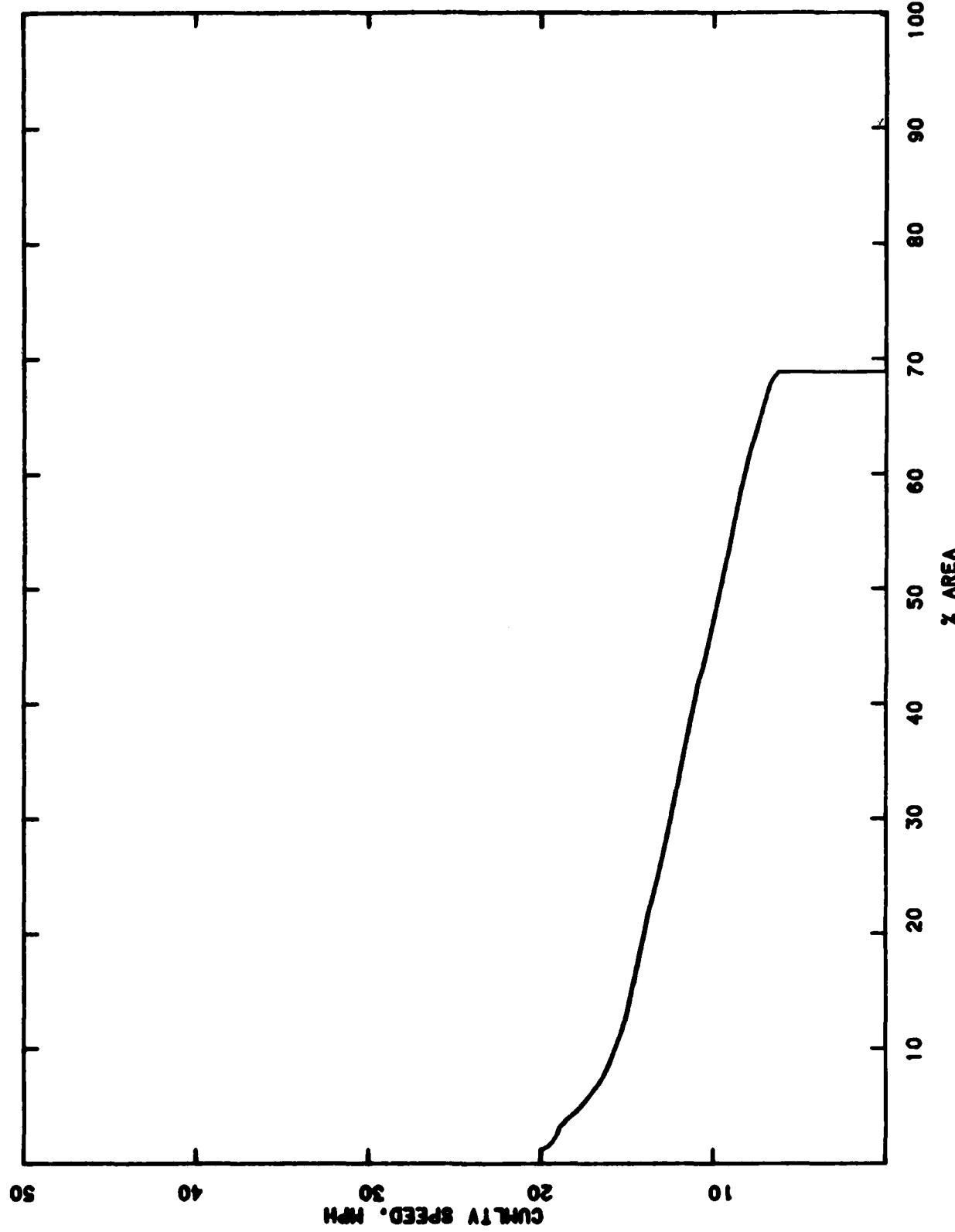


MAX ALTITUDE SPEED. NM

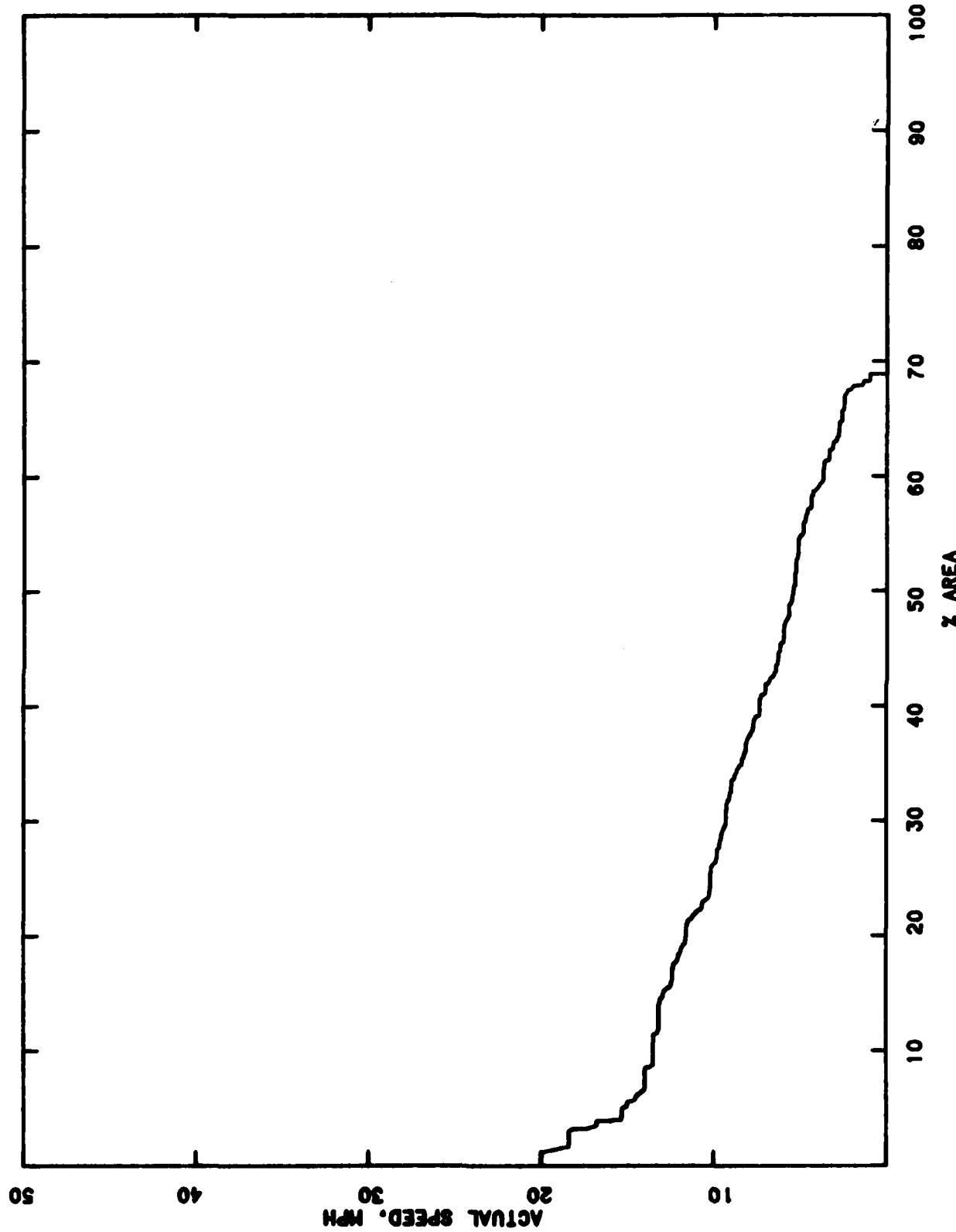
PERFORMANCE OF M814101 IN EUROPE2 SHOW



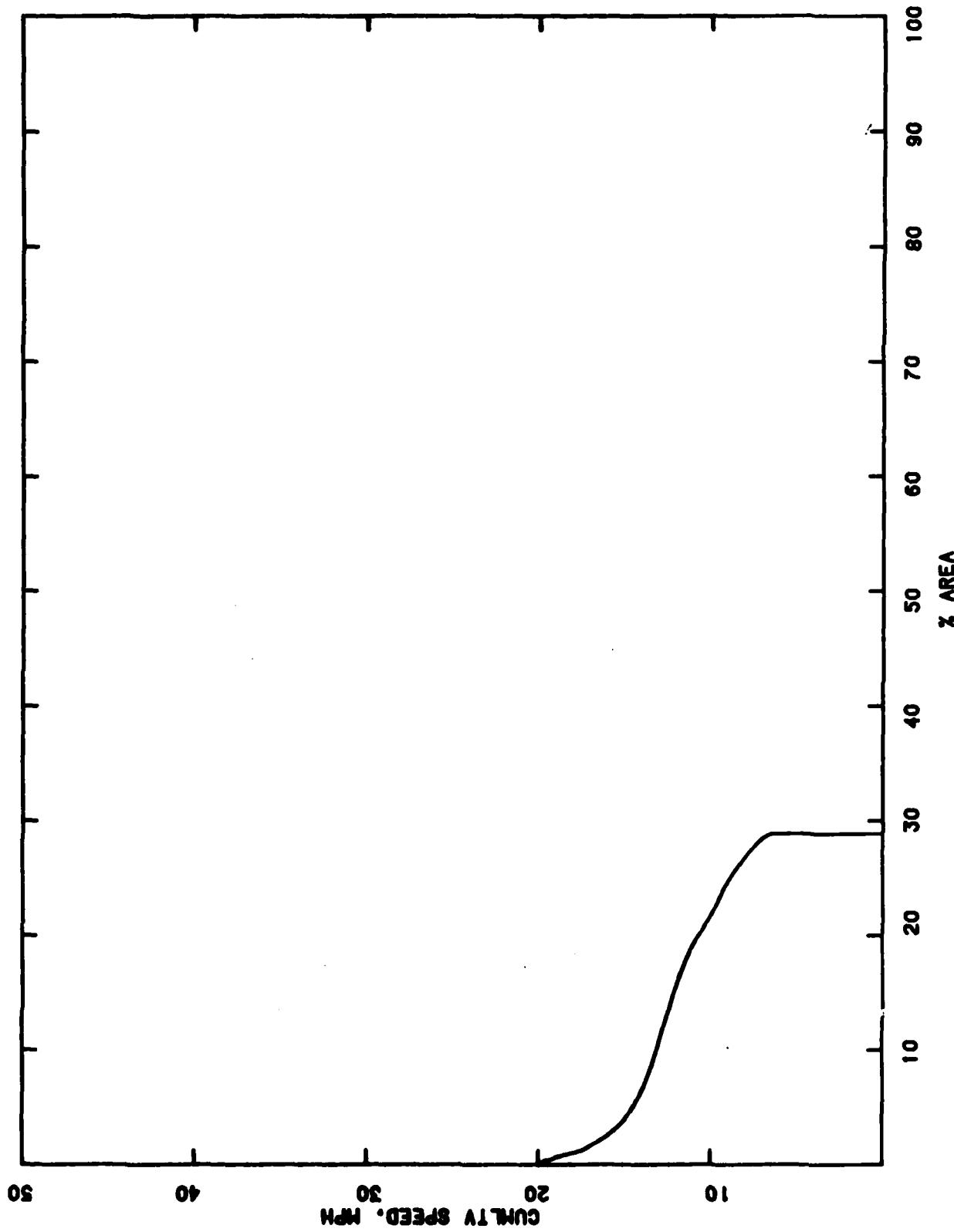
PERFORMANCE OF M814101 IN MIDEAST1 DRY



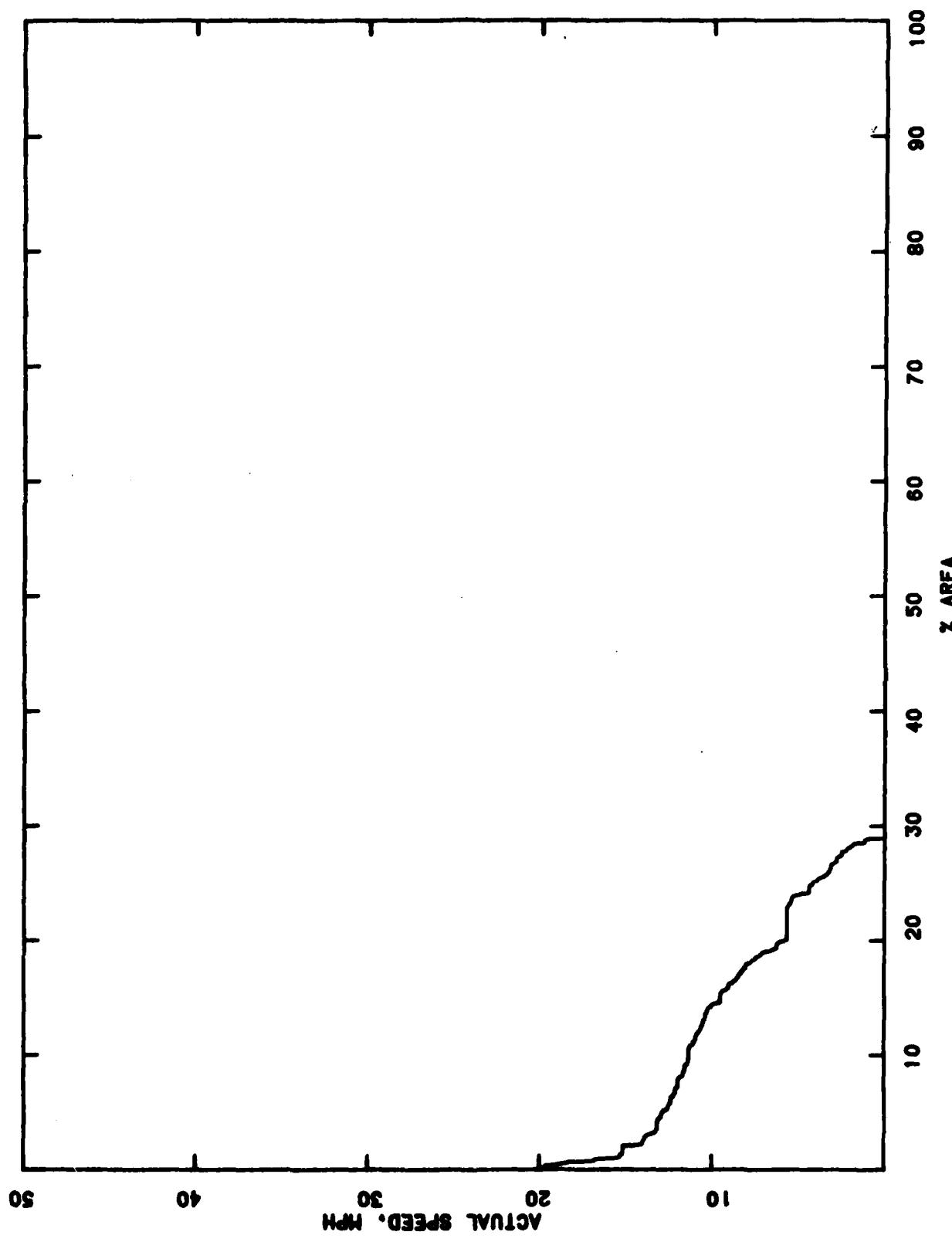
PERFORMANCE OF M814101 IN MIDEAST DRY



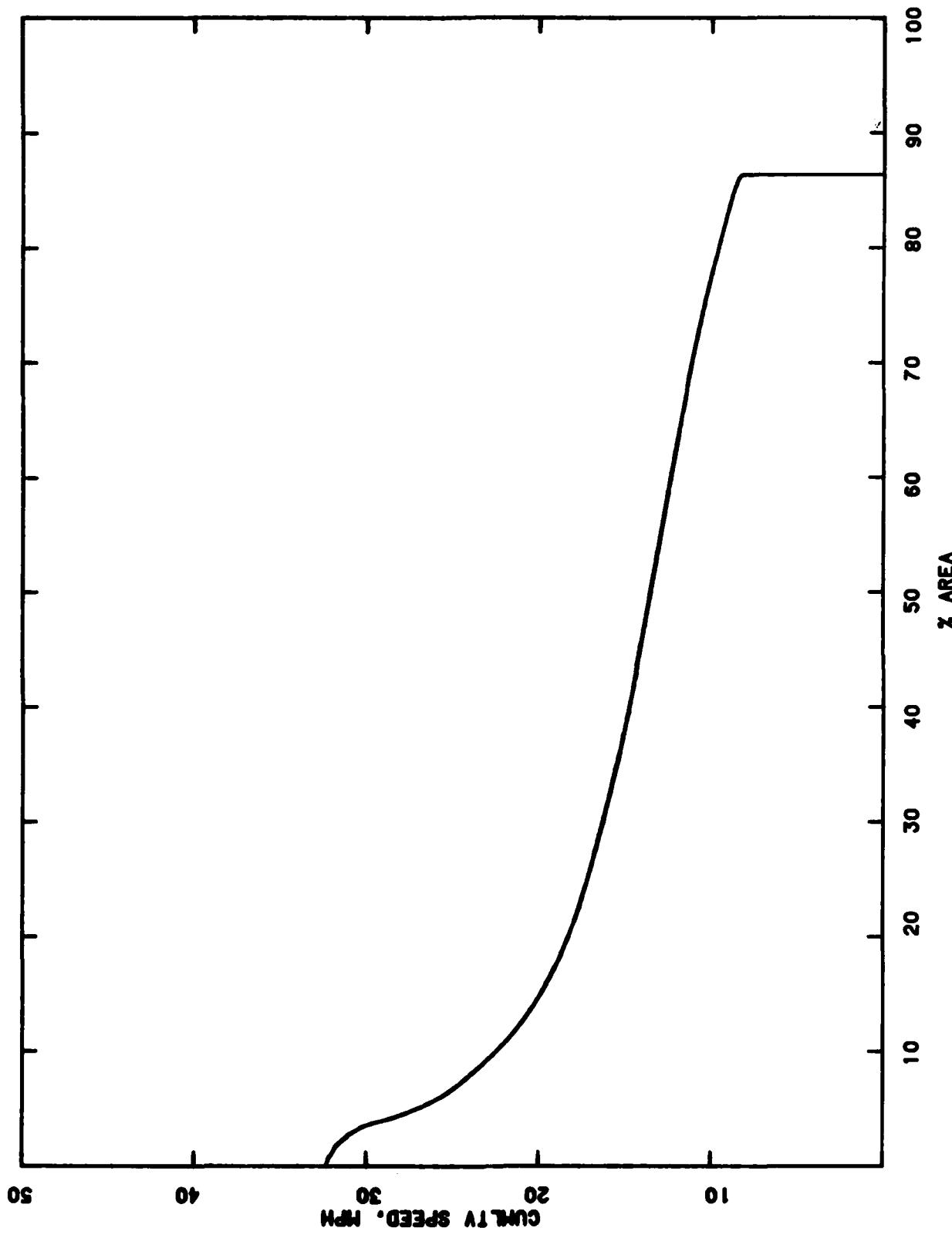
PERFORMANCE OF M814101 IN MIDEAST 1 WET



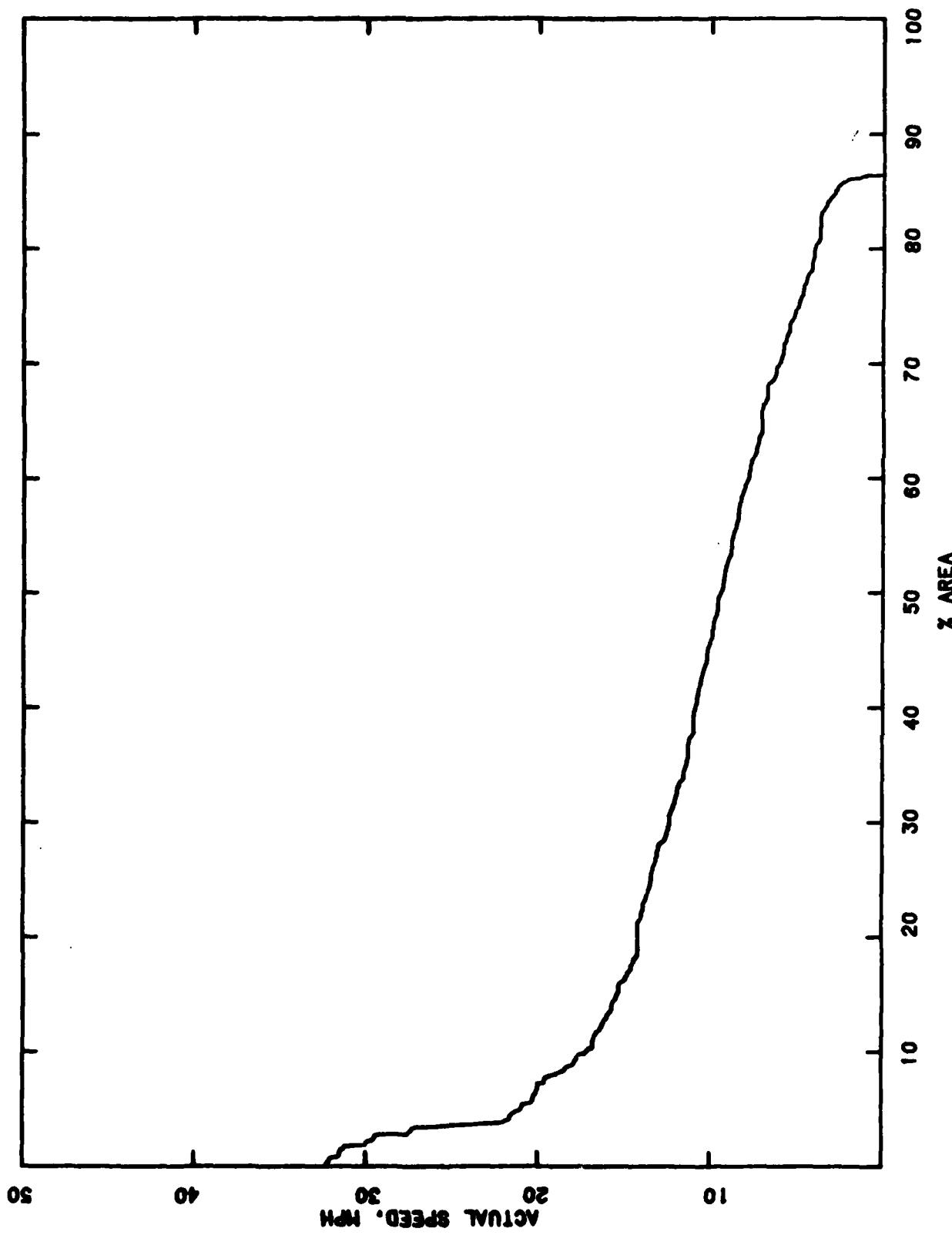
PERFORMANCE OF M814101 IN MIDEAST1 WET

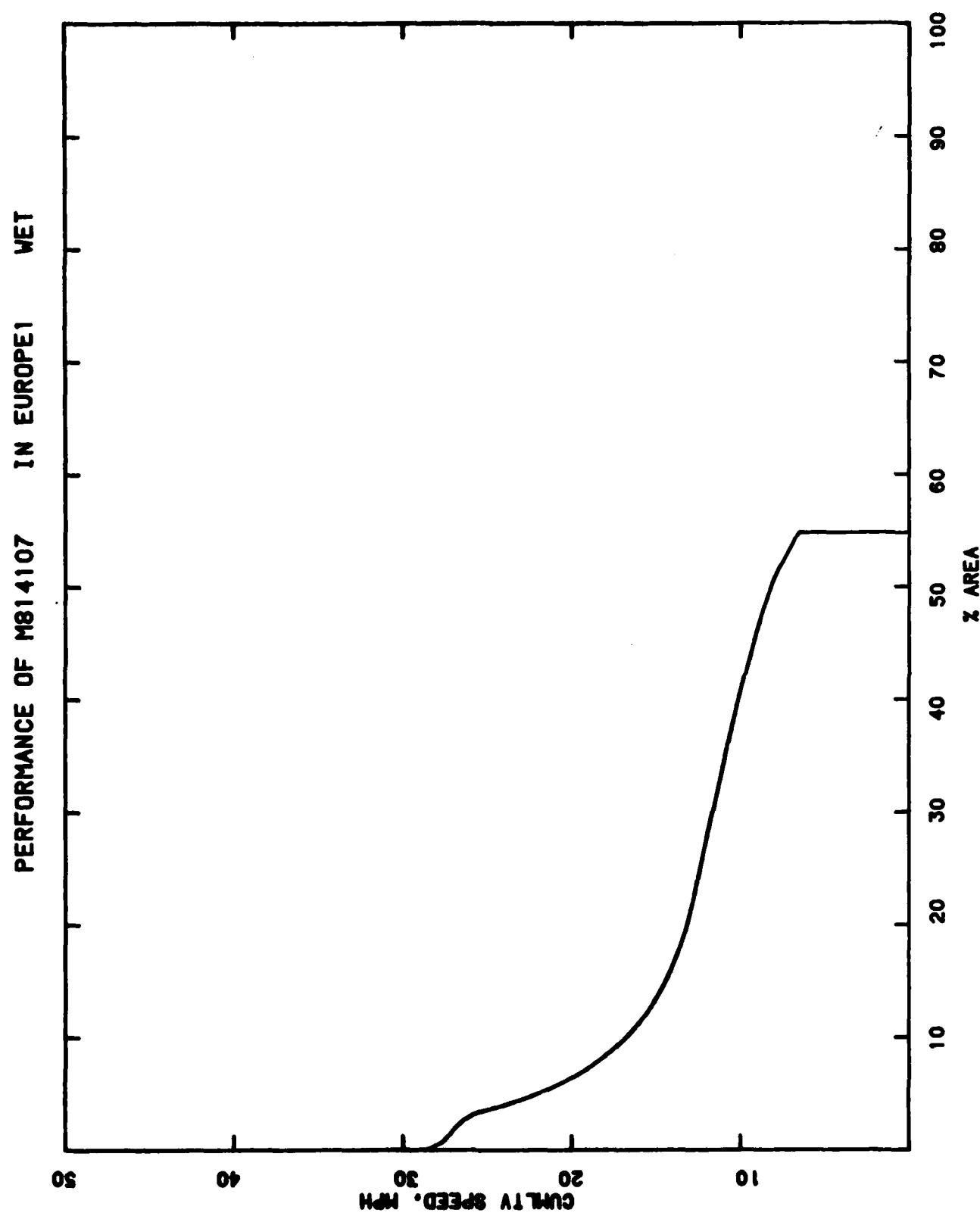


PERFORMANCE OF M814107 IN EUROPE1 DRY

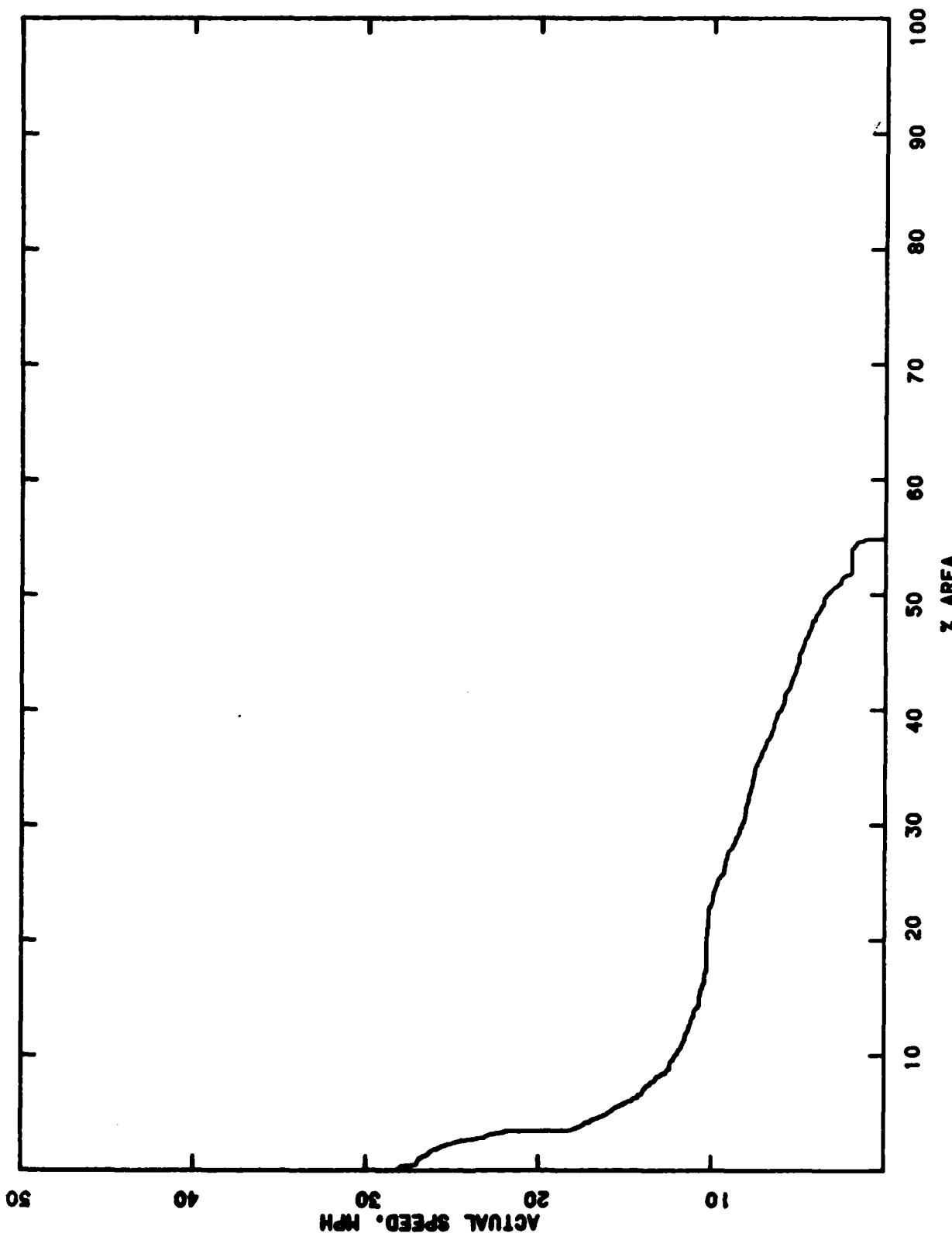


PERFORMANCE OF MB14107 IN EUROPE I DRY

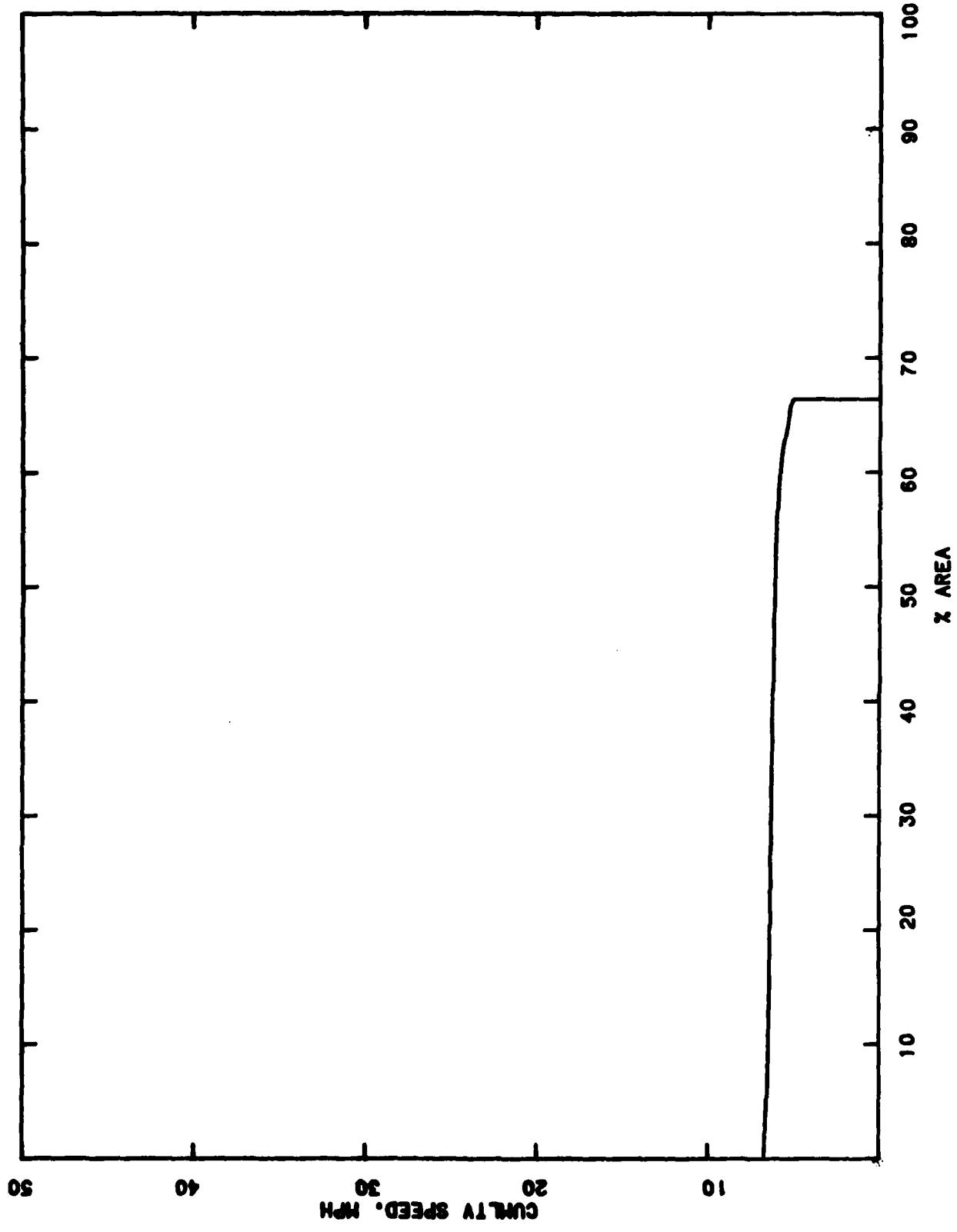




PERFORMANCE OF MB14107 IN EUROPE1 WET

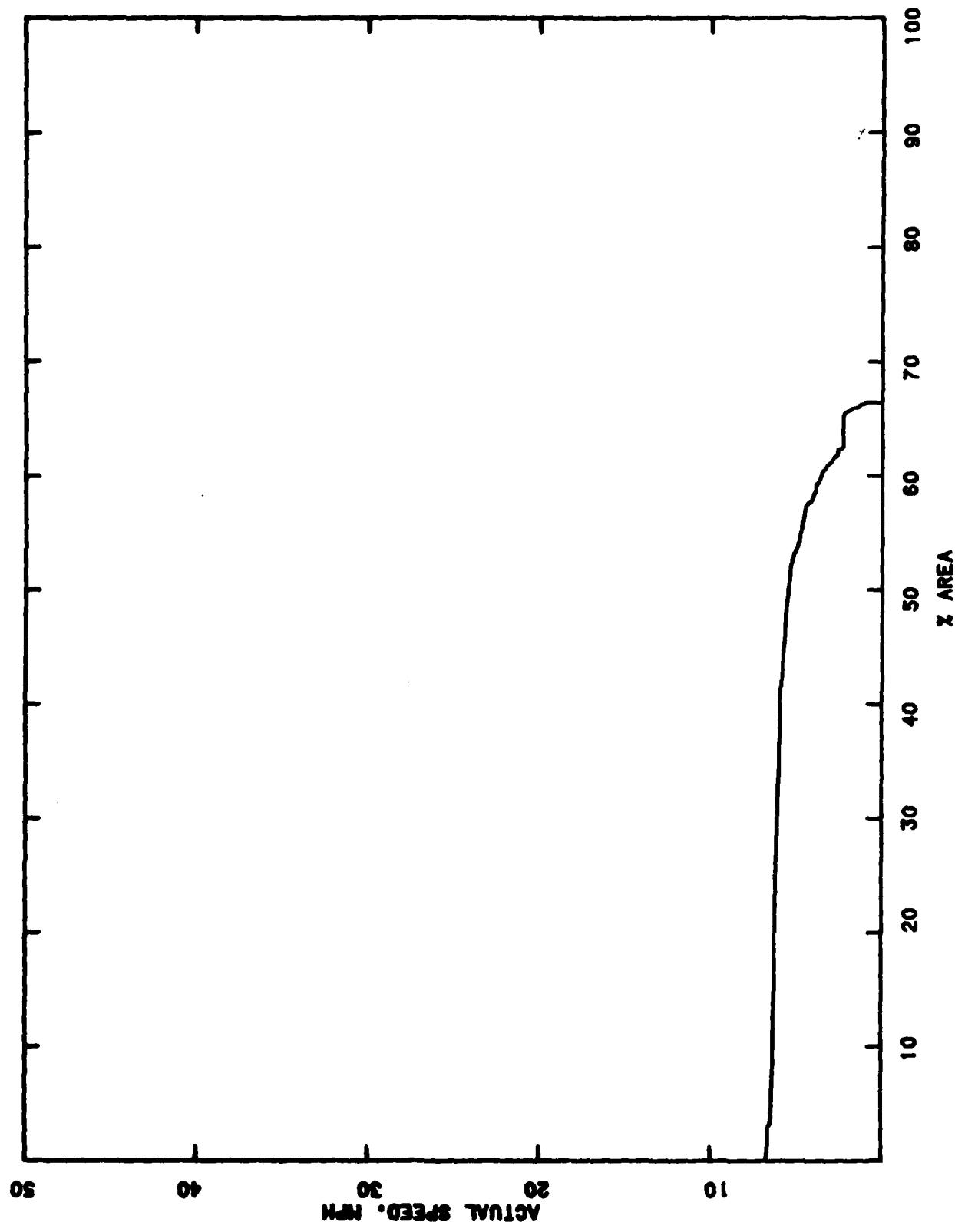


PERFORMANCE OF M814107 IN EUROPE1 SNOW

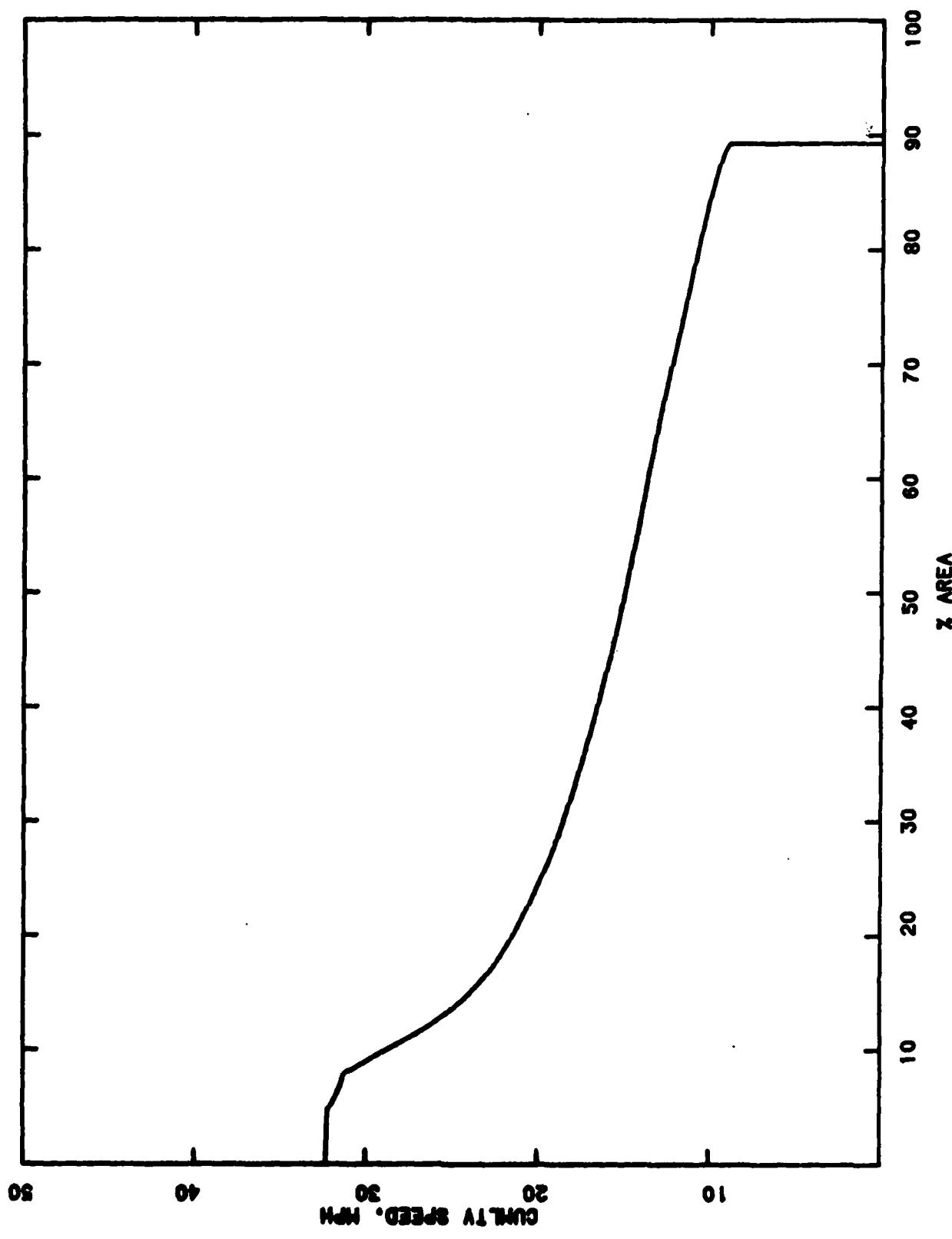


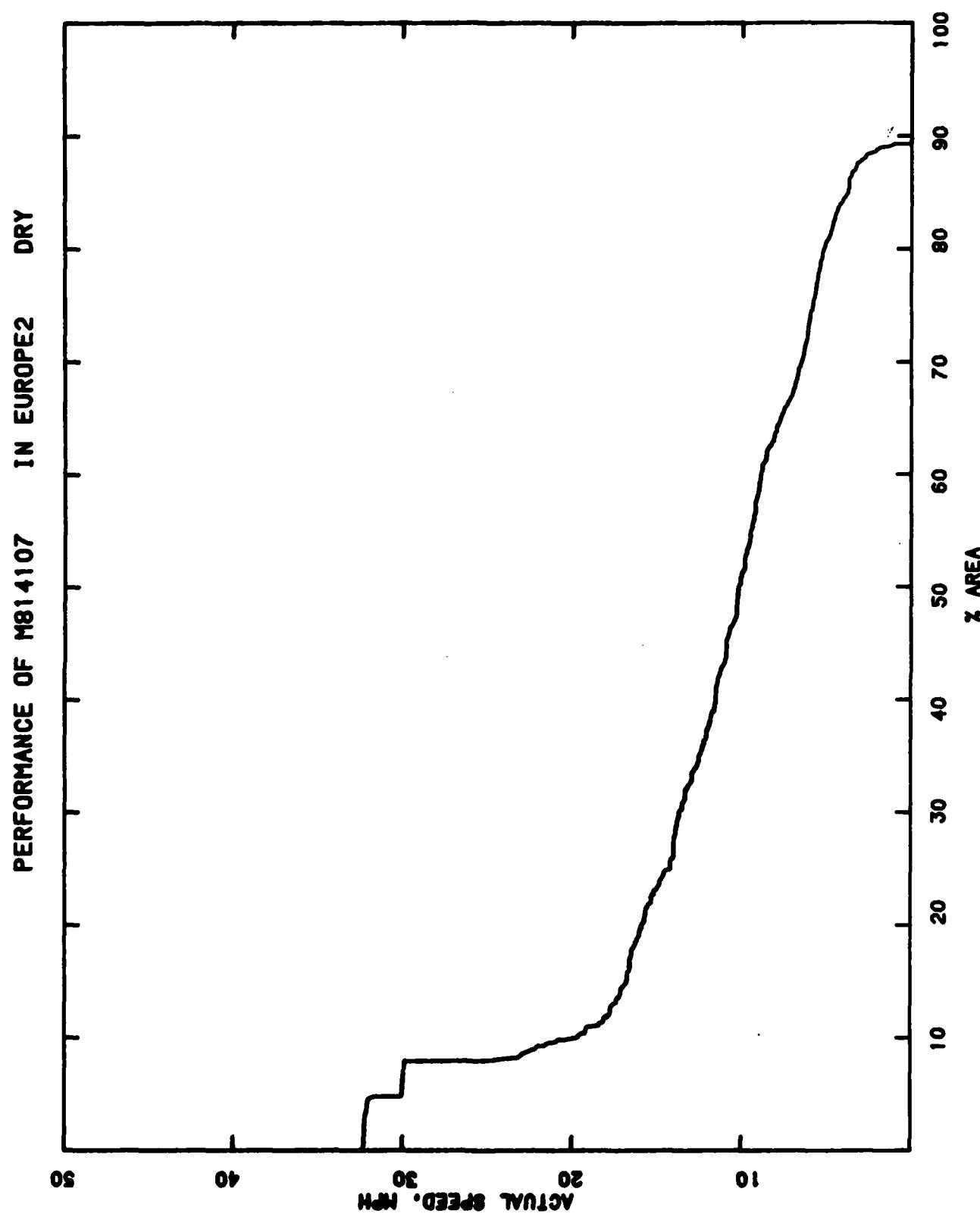
150

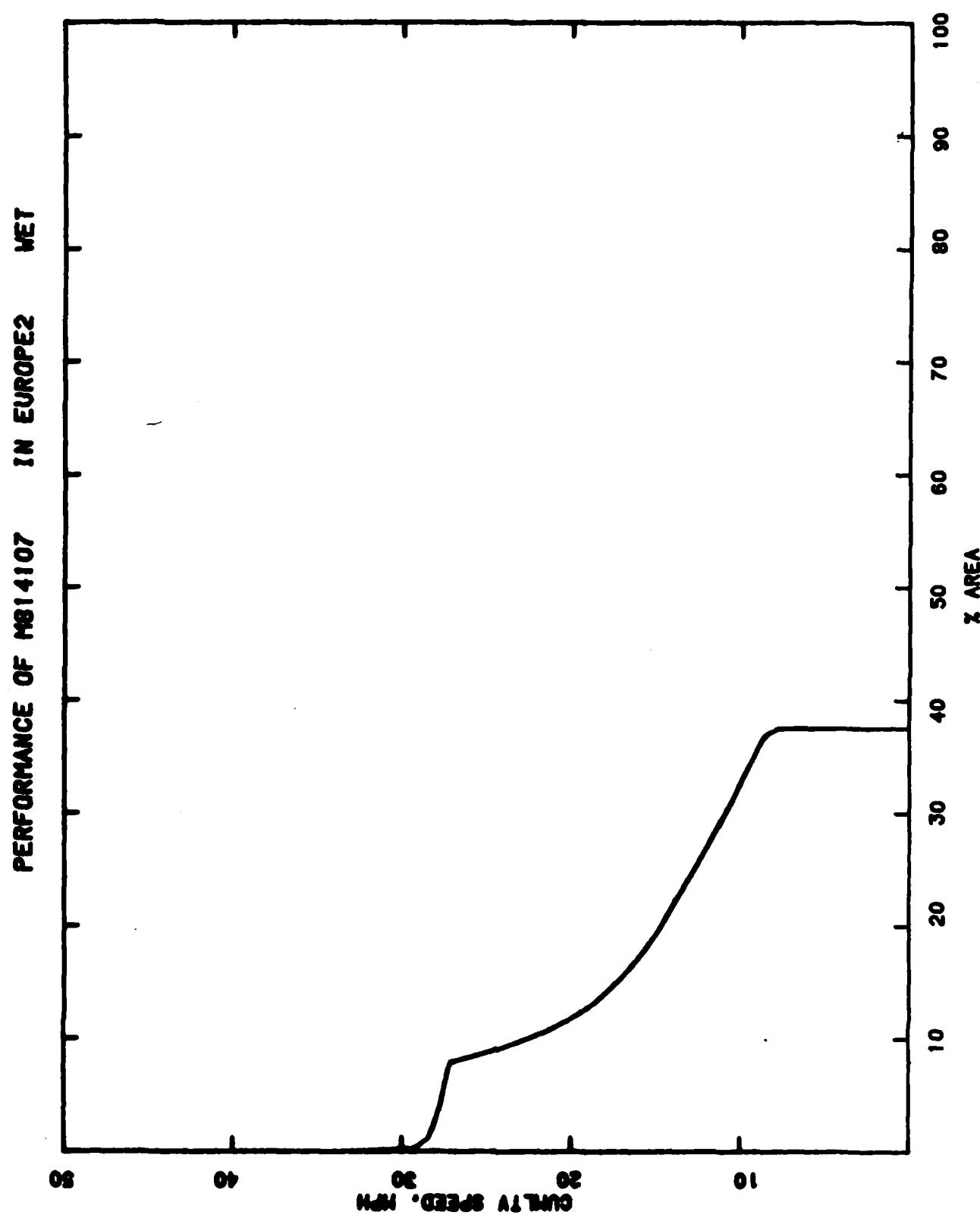
PERFORMANCE OF MB14107 IN EUROPE I
SNOW

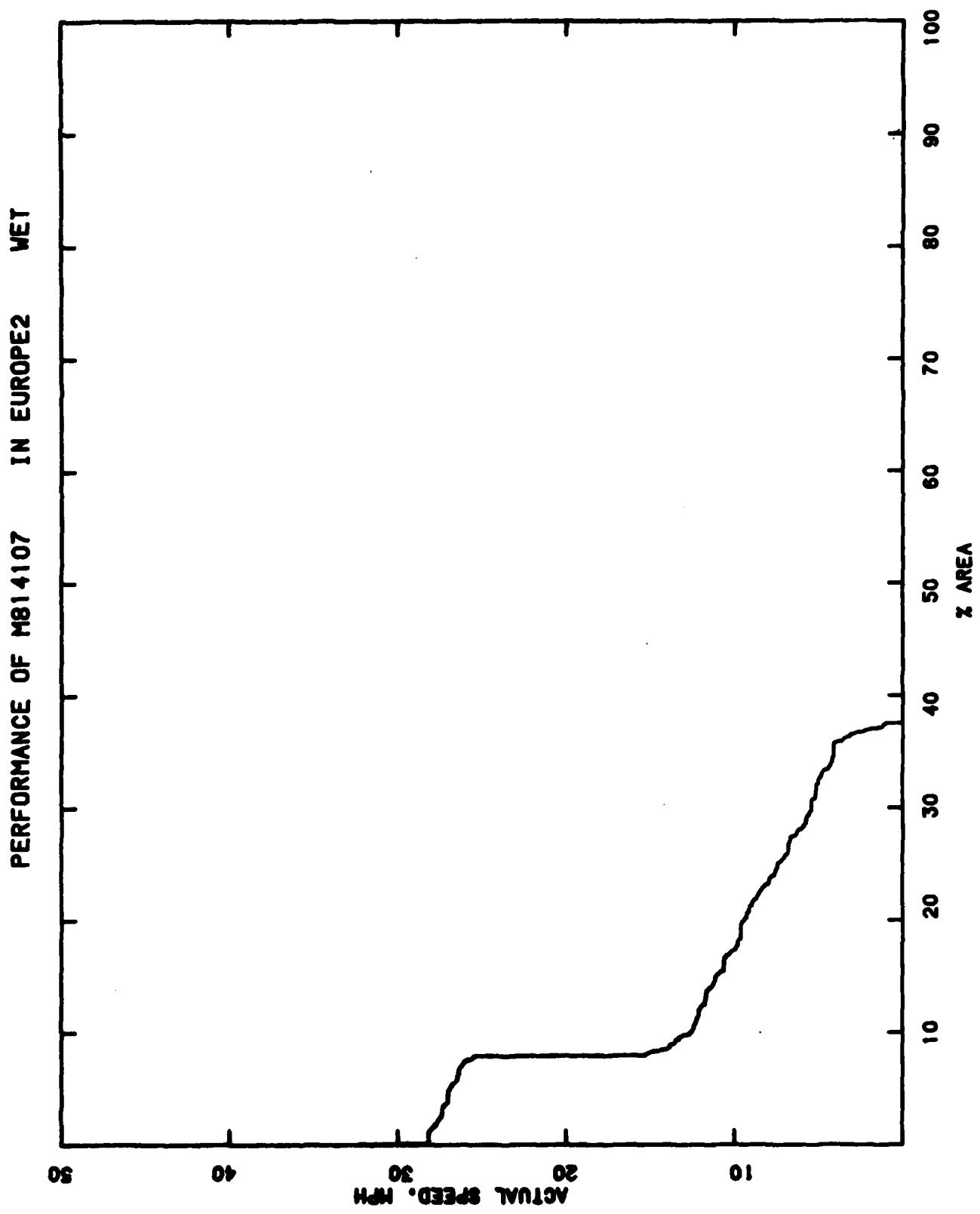


PERFORMANCE OF NB14107 IN EUROPE2 DRY

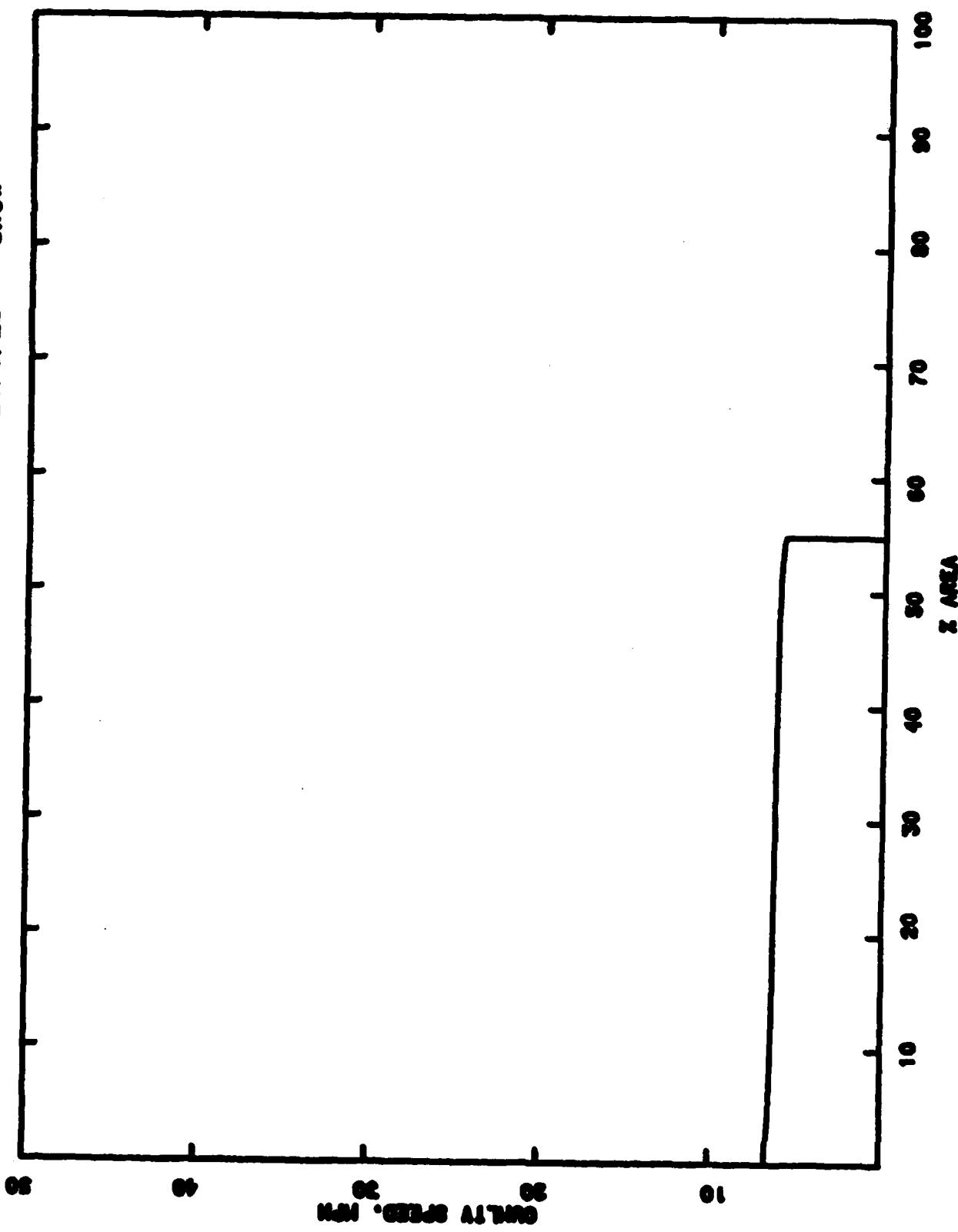




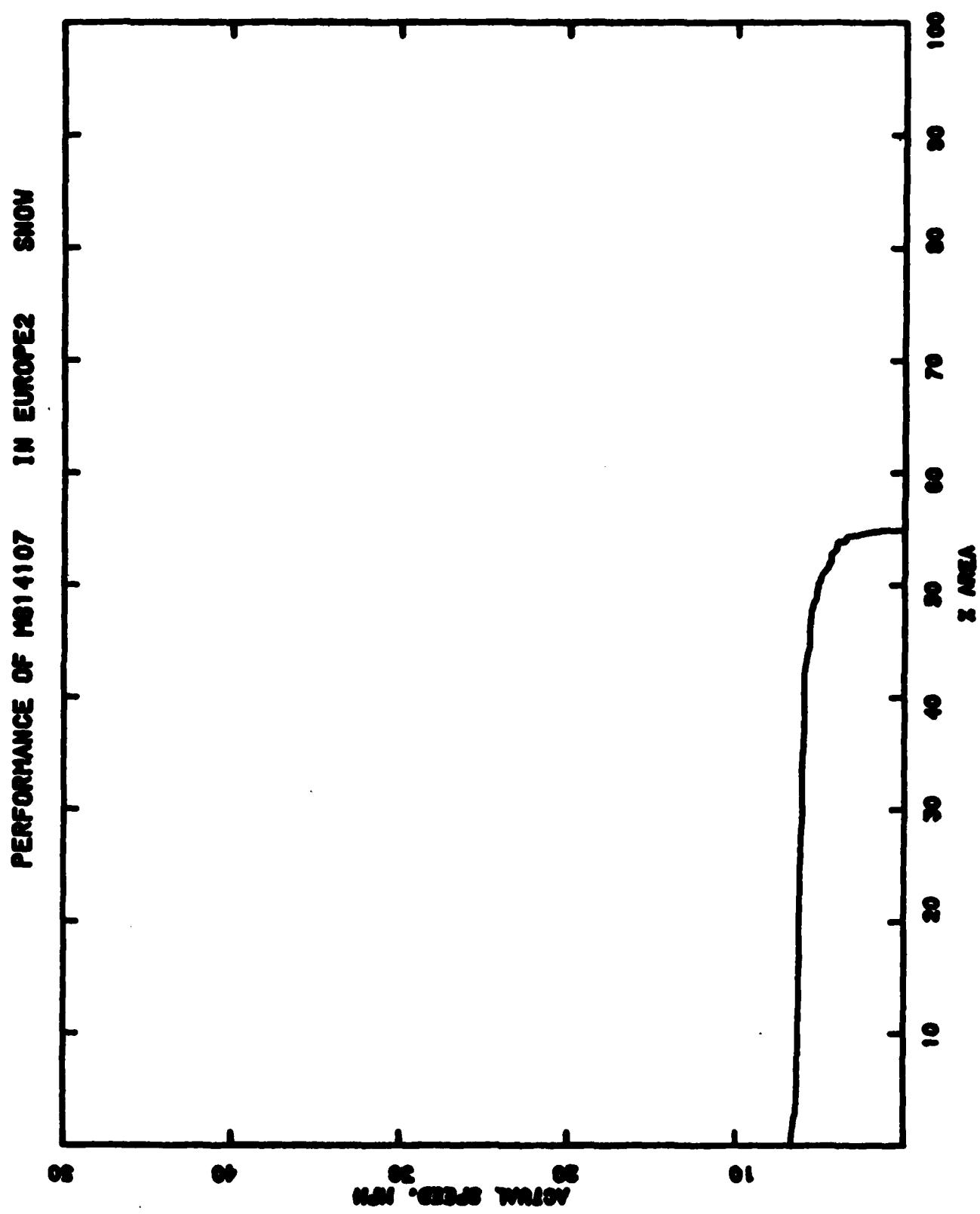




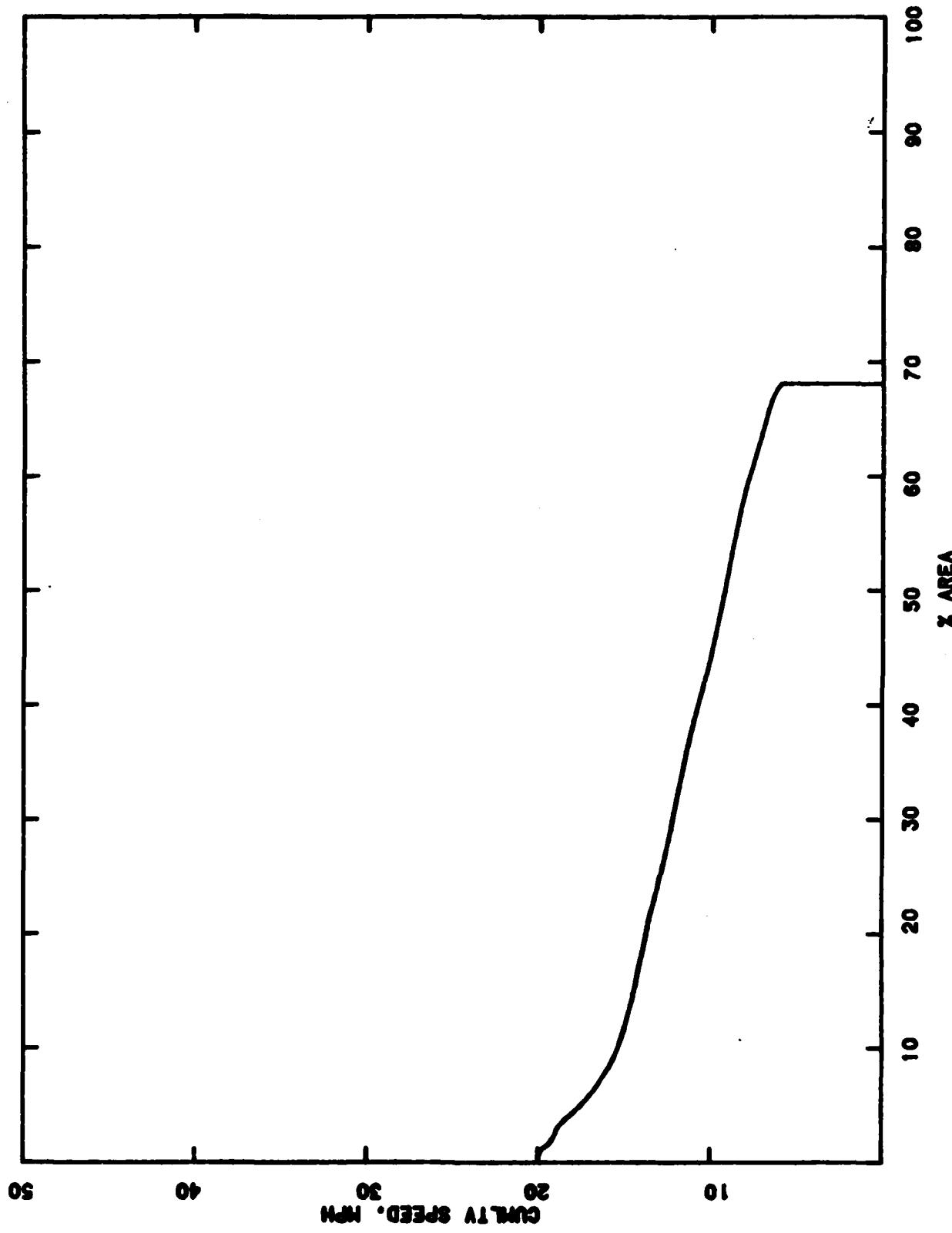
PERFORMANCE OF NE14107 IN EUROPE2 SHOW



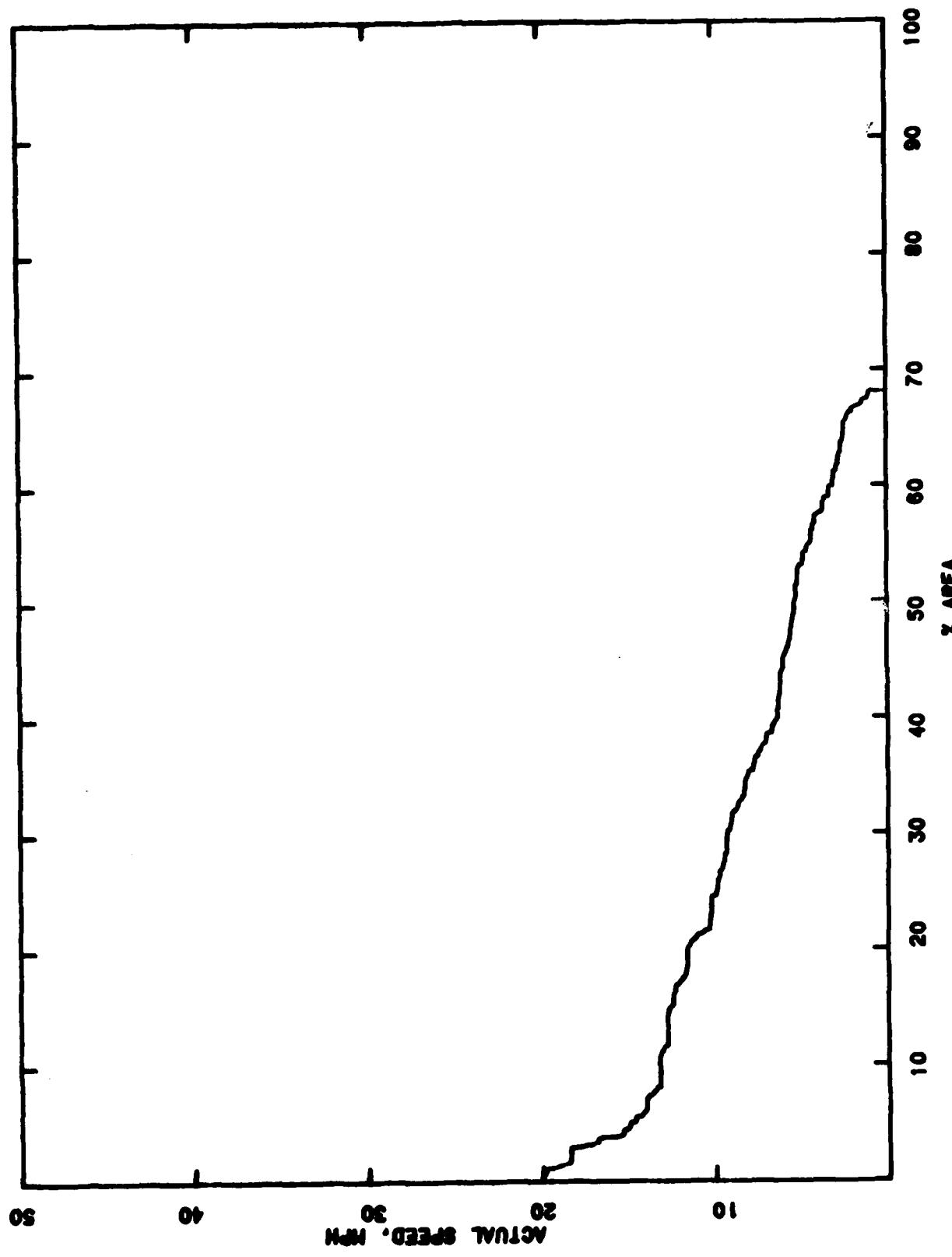
NE14107 IN EUROPE2 SHOW



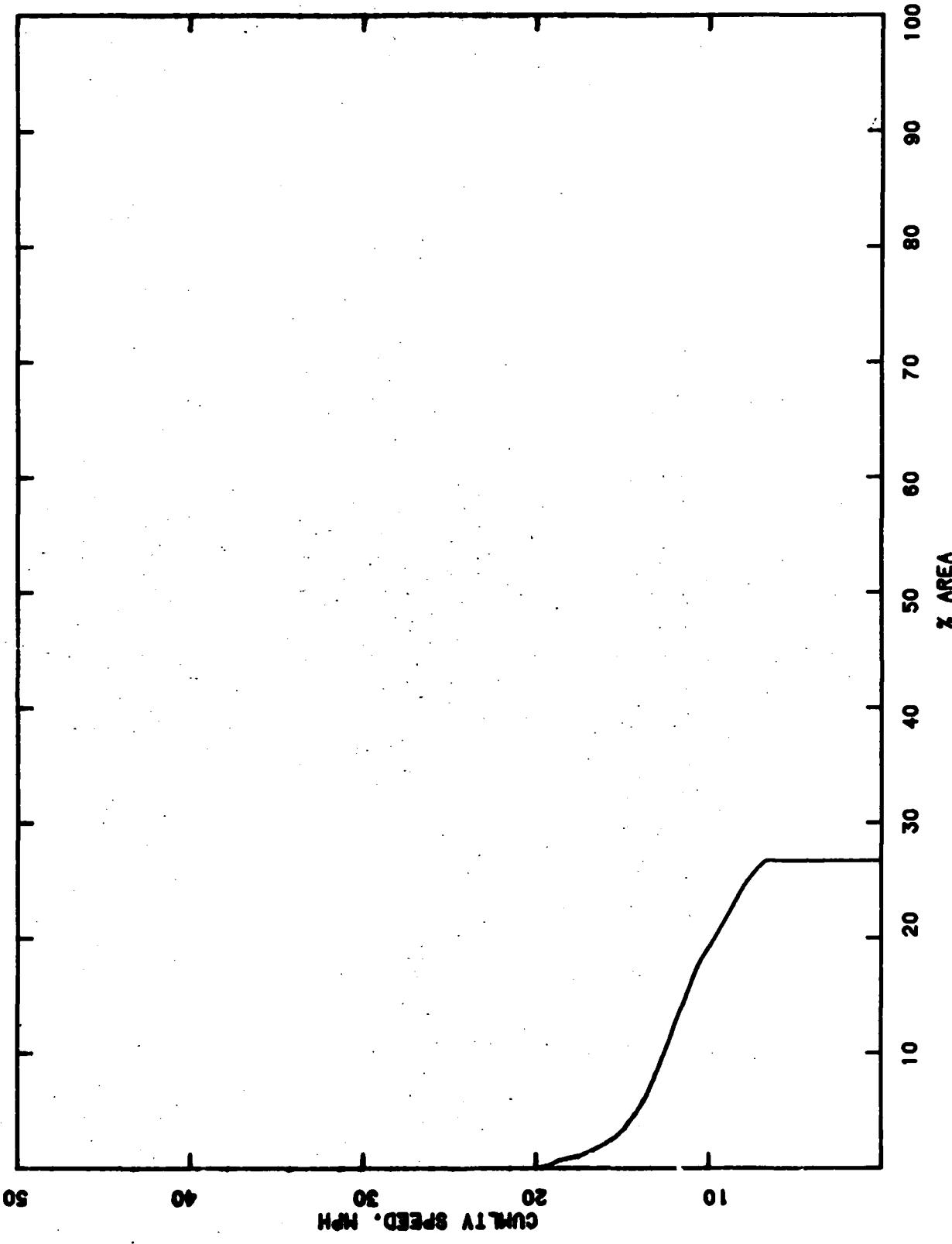
PERFORMANCE OF M814107 IN MIDEAST I DRY



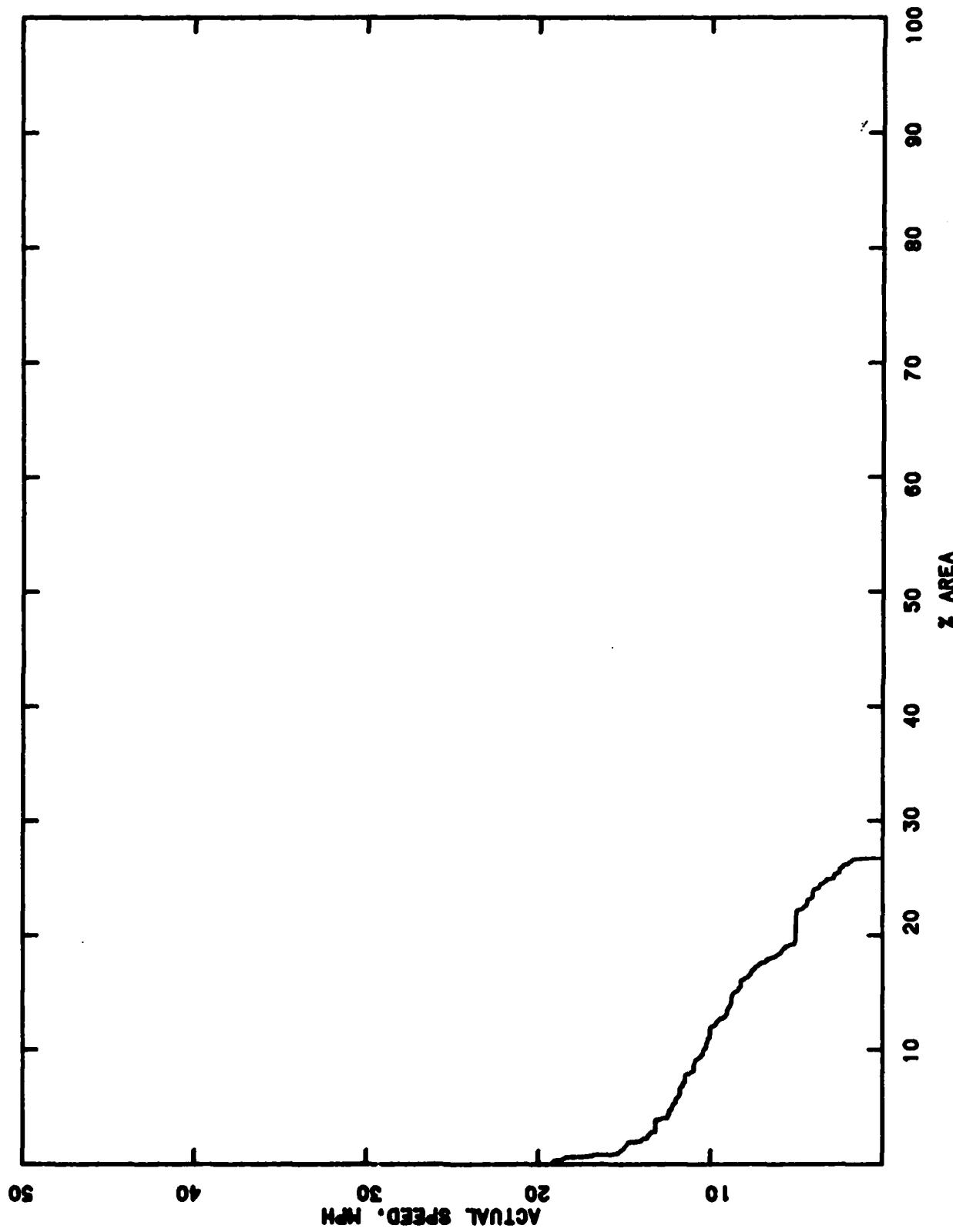
PERFORMANCE OF M814107 IN MIDEAST DRY

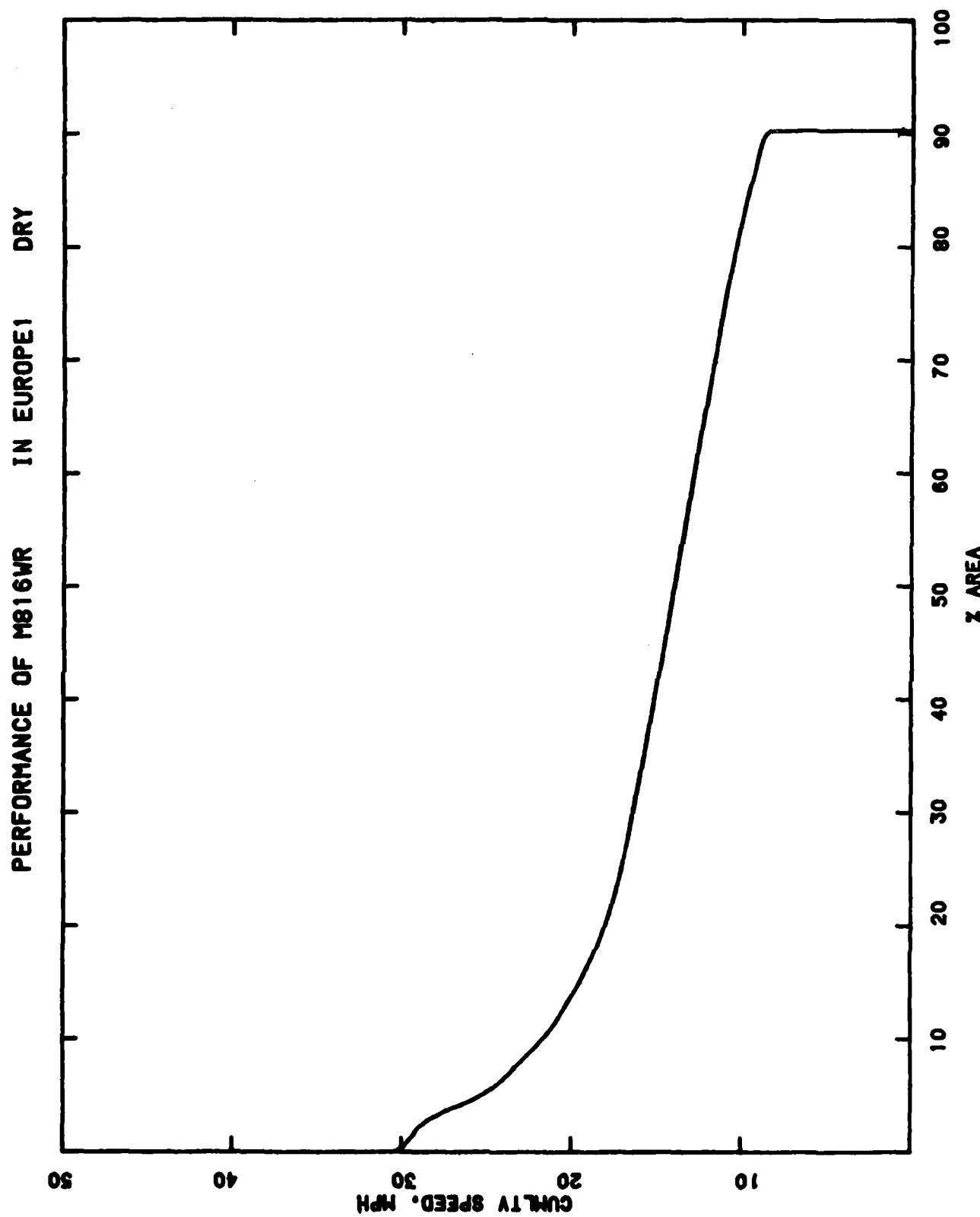


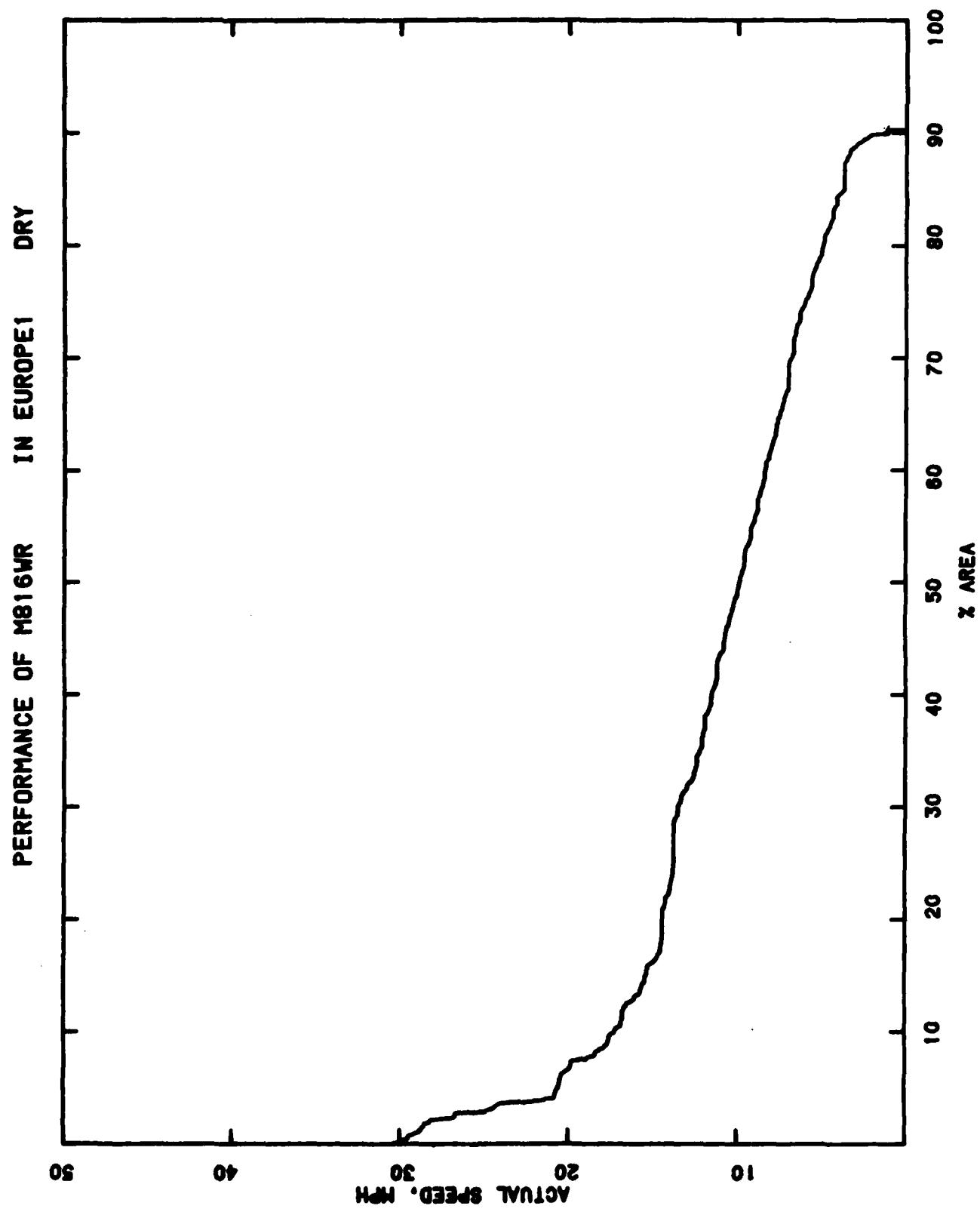
PERFORMANCE OF MB14107 IN MIDEAST1 WET

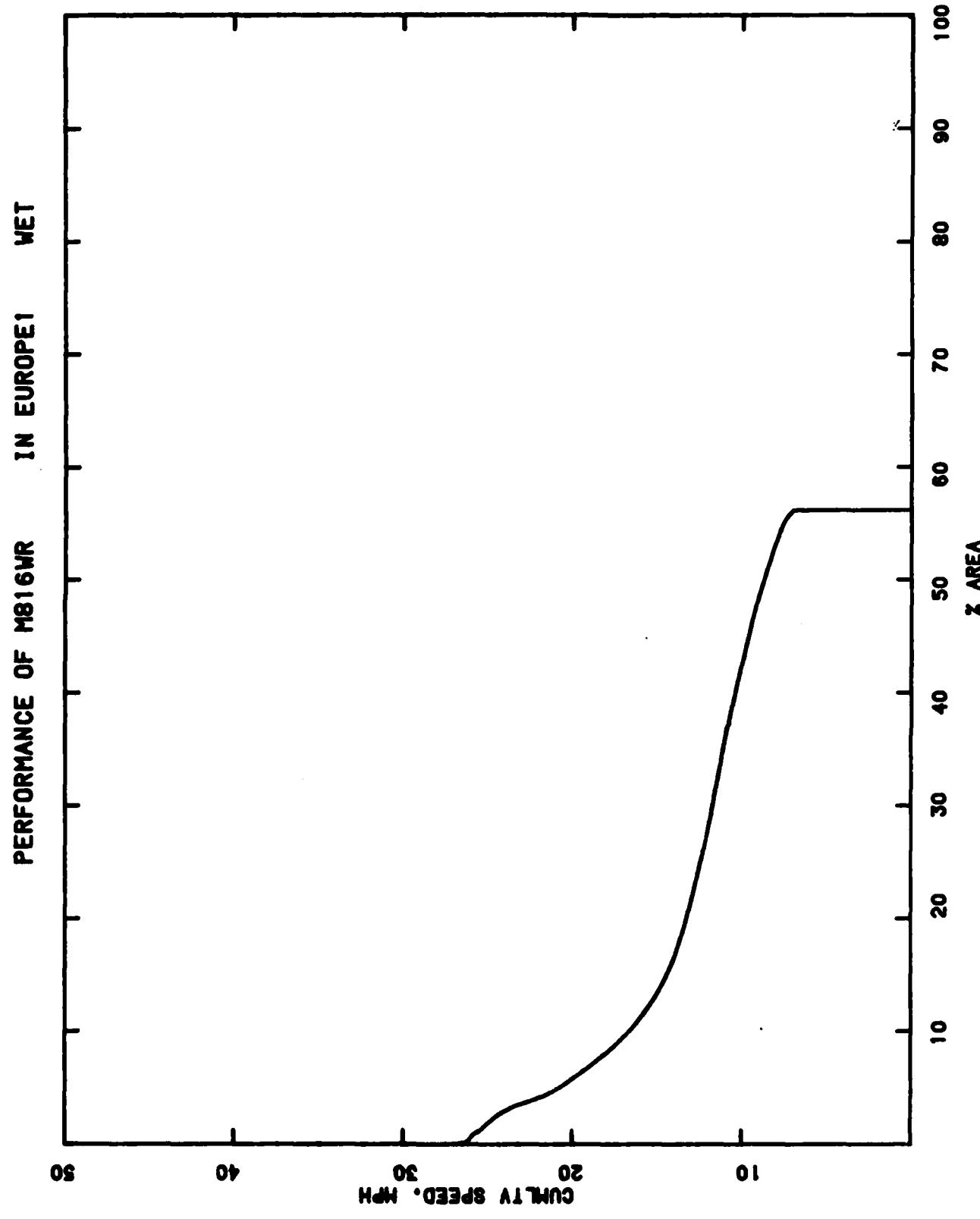


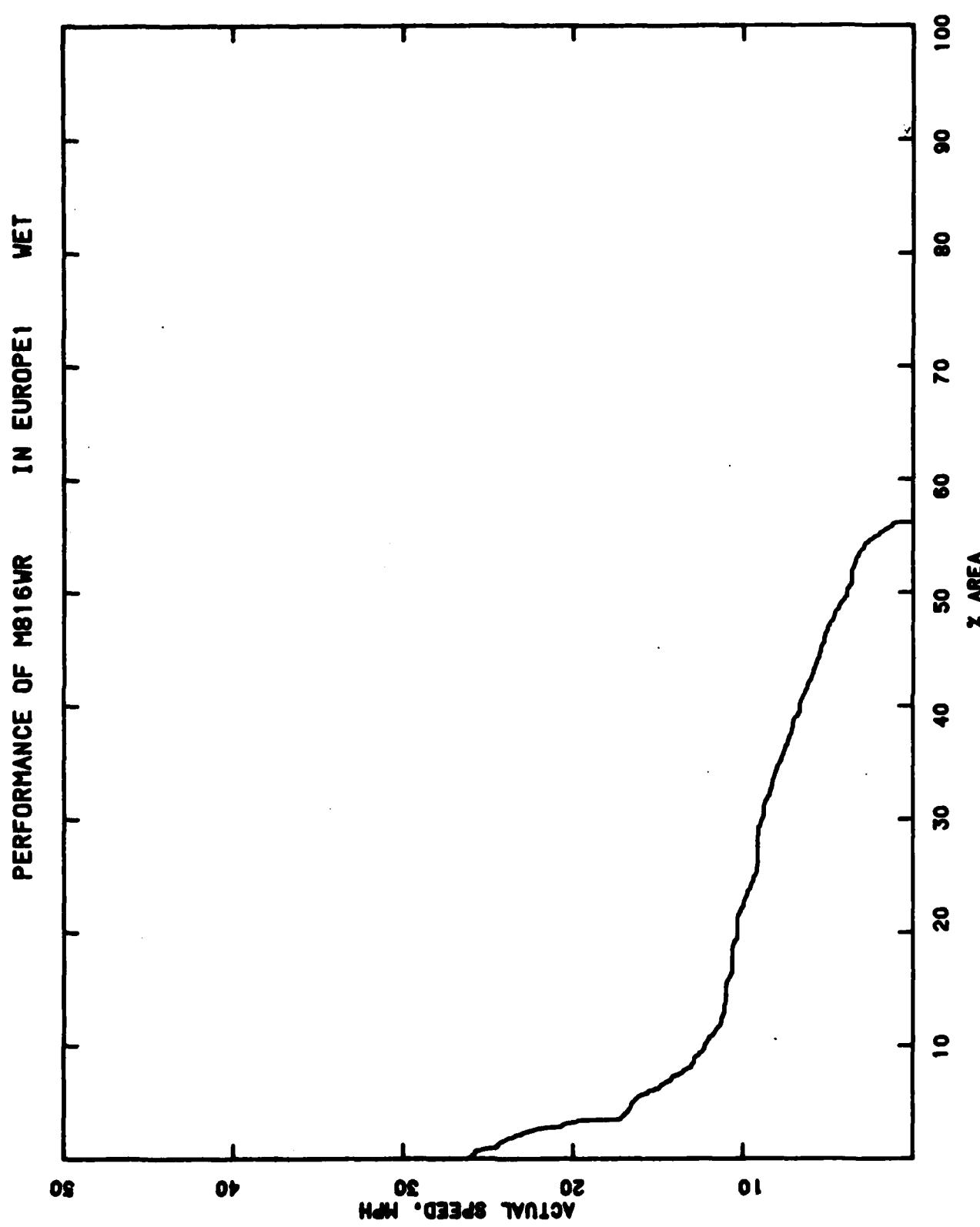
PERFORMANCE OF M814107 IN MIDEAST1 WET



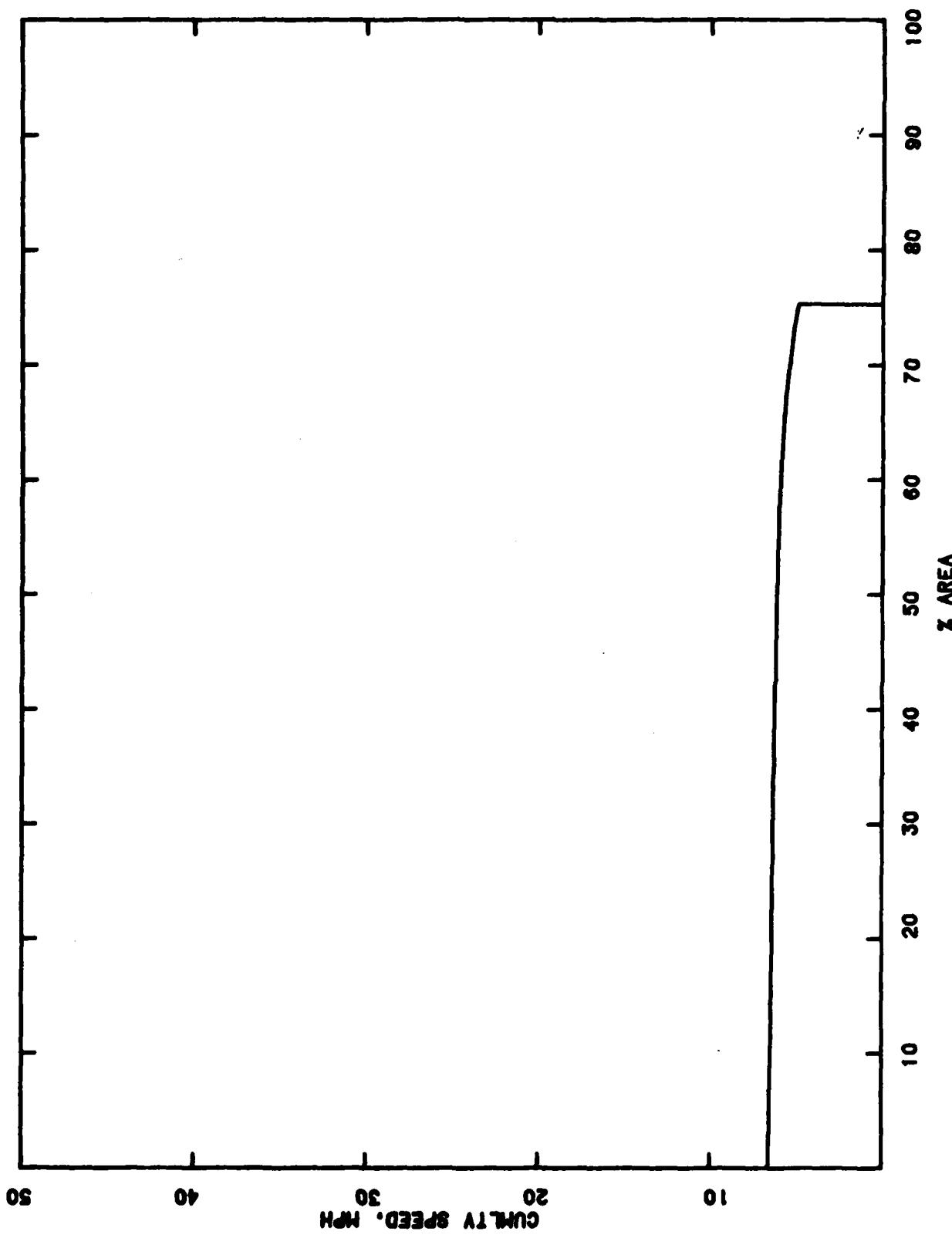




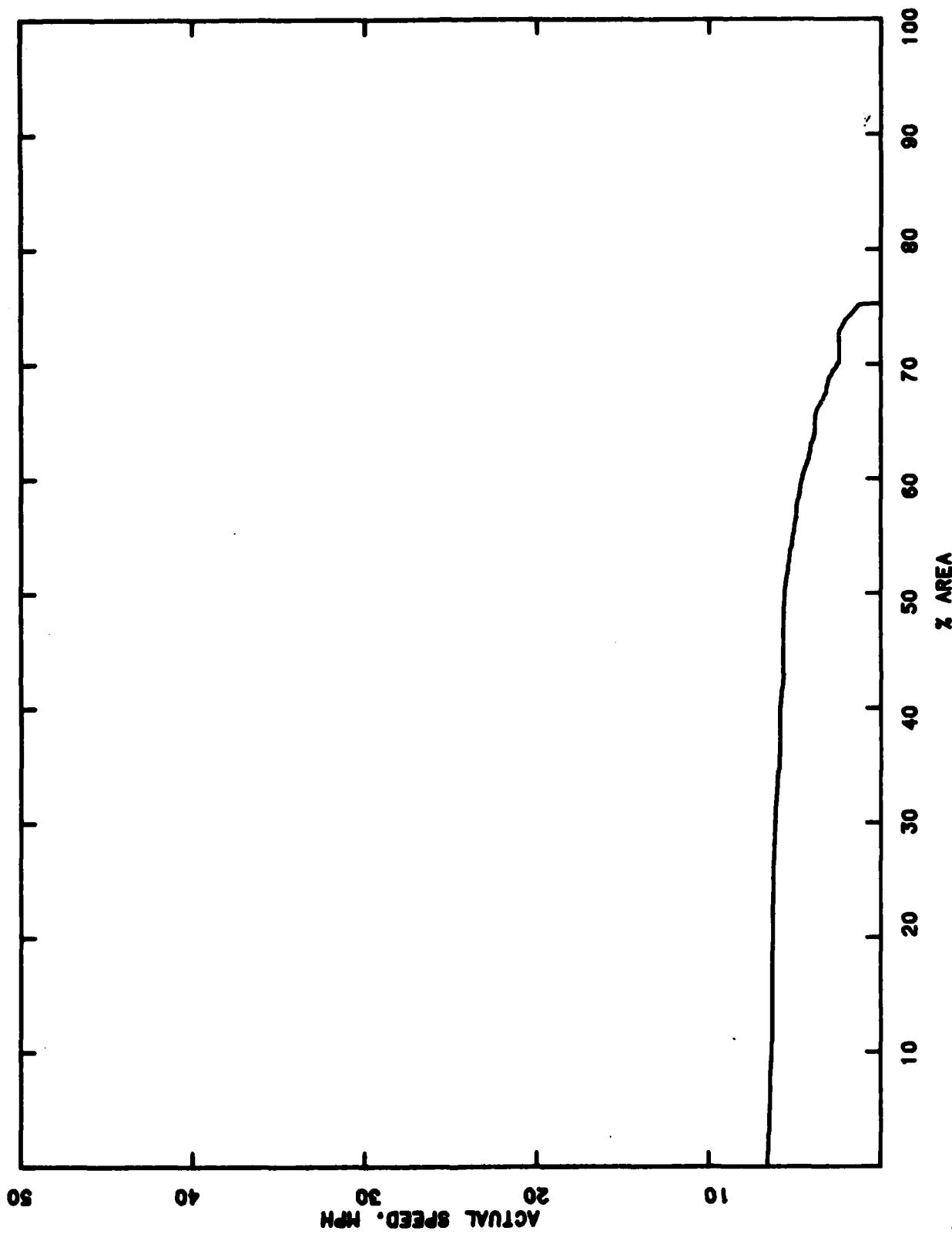


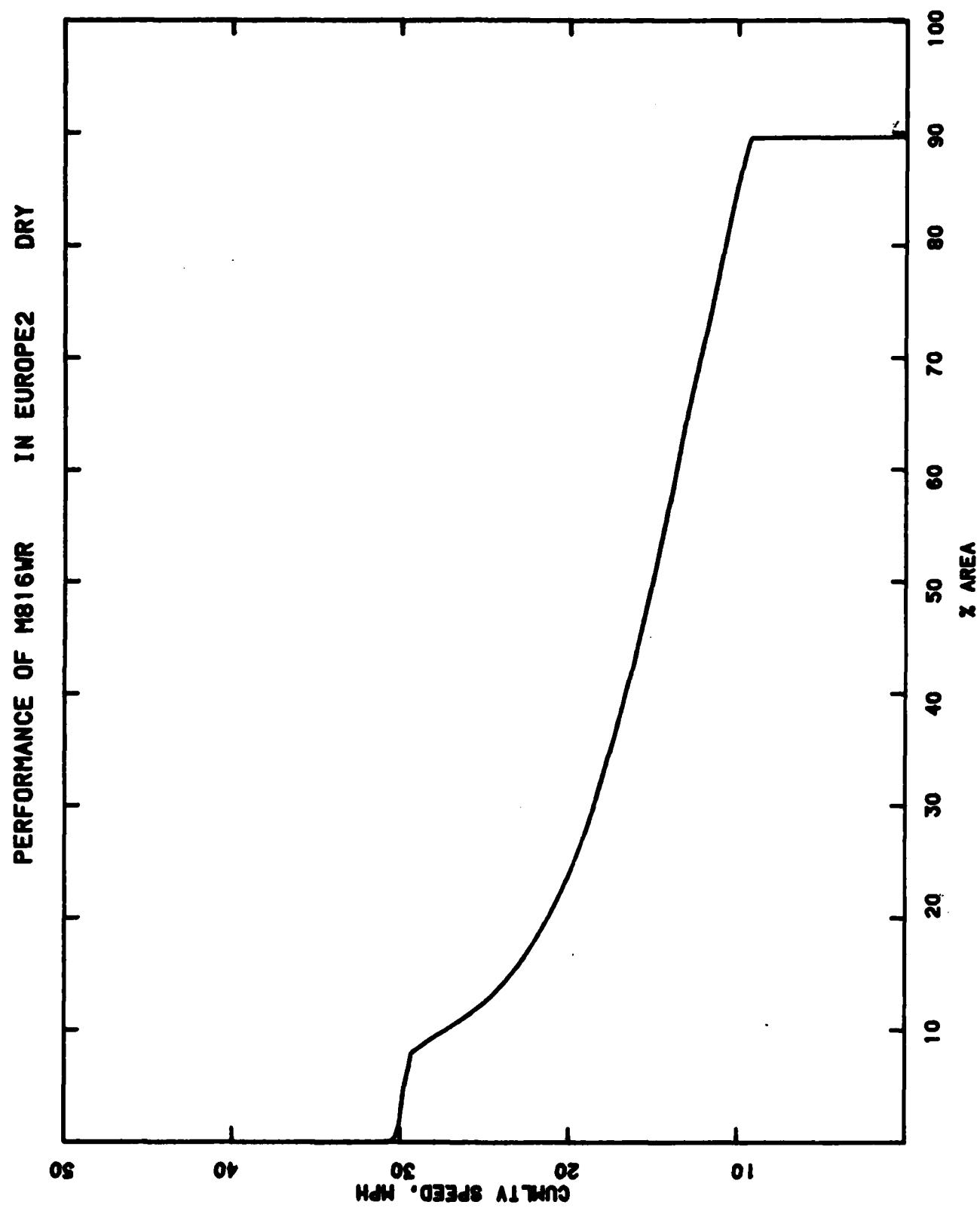


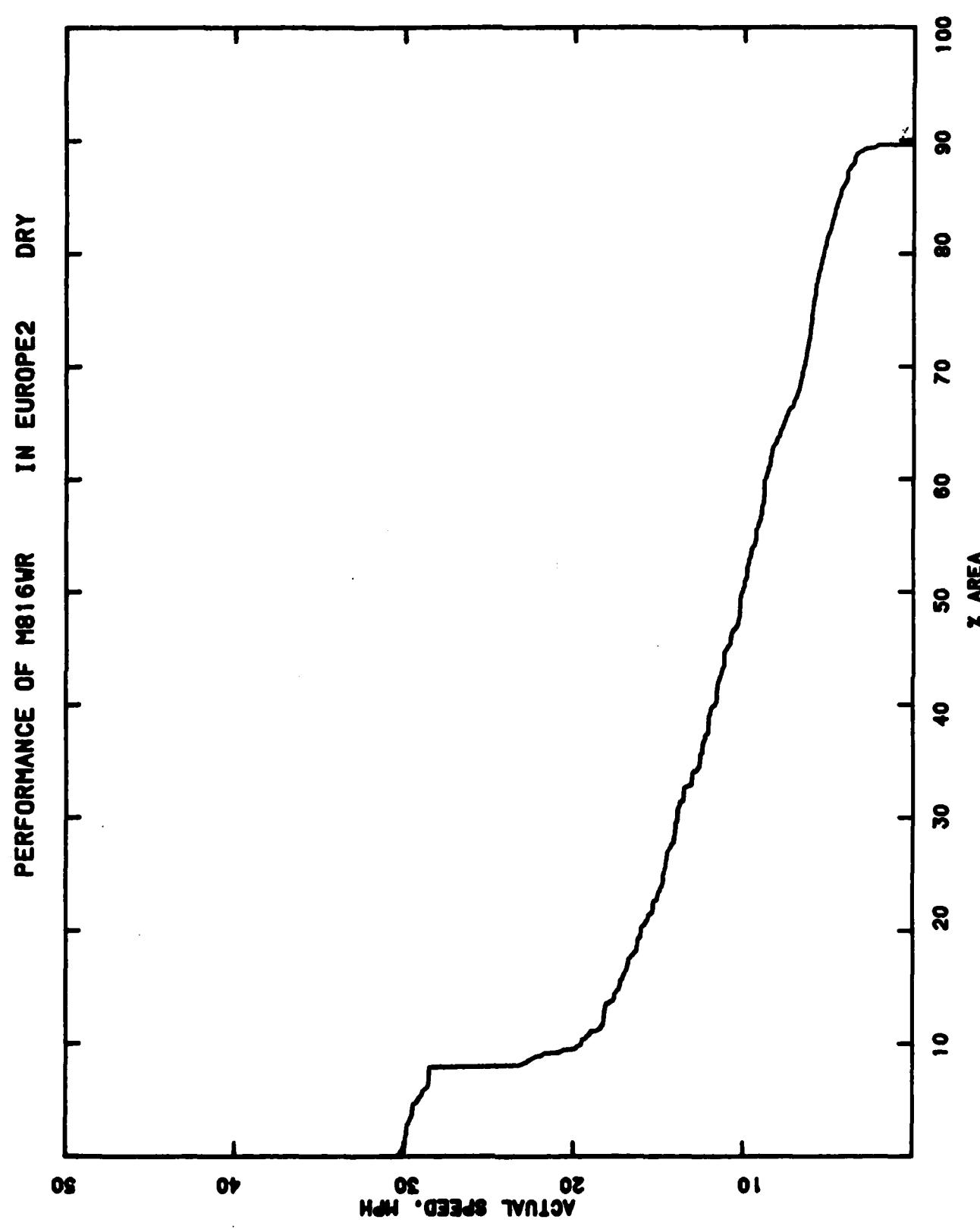
PERFORMANCE OF M816UR IN EUROPE1 SNOW



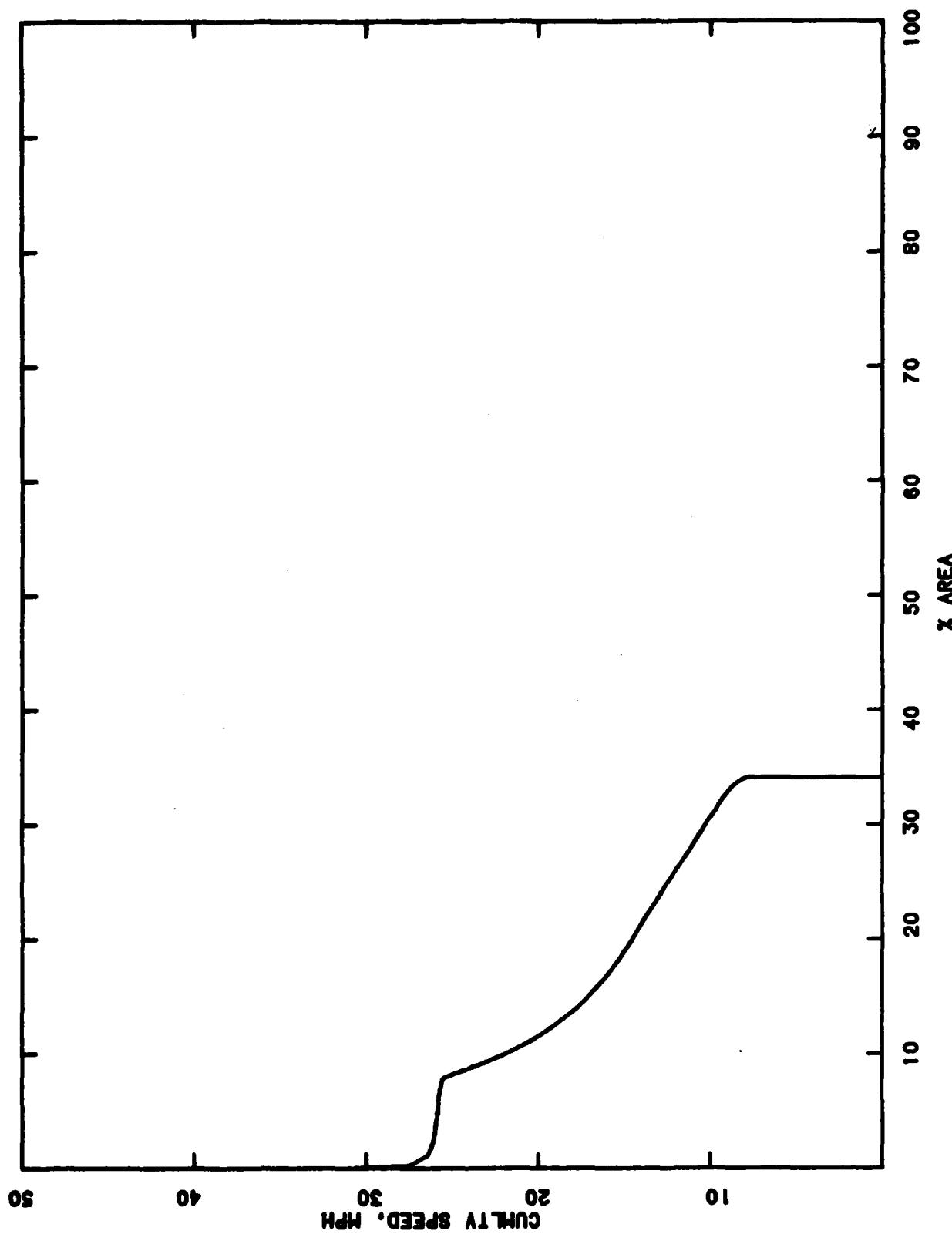
PERFORMANCE OF M816WR IN EUROPE 1 SNOW





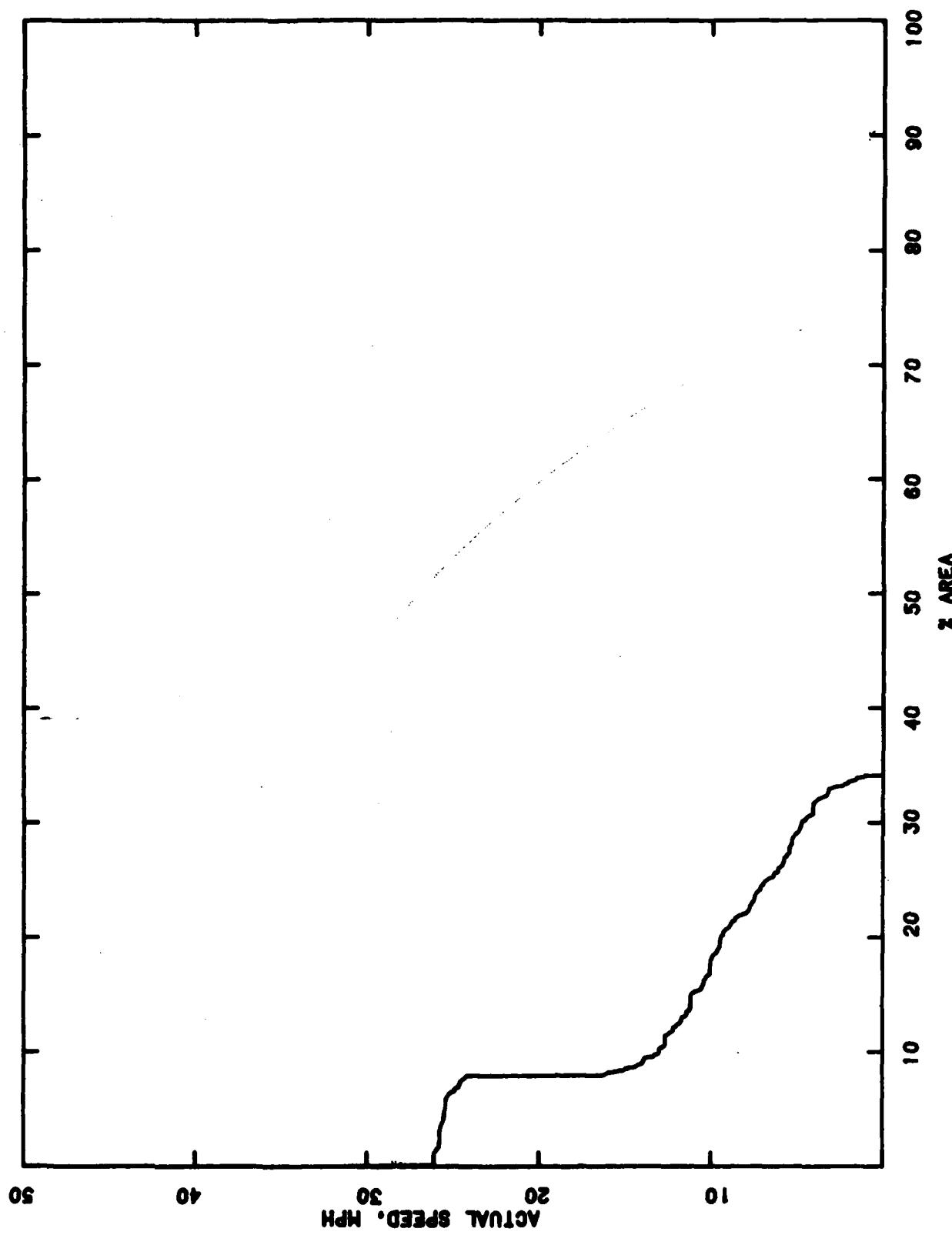


PERFORMANCE OF M816WR IN EUROPE2 WET

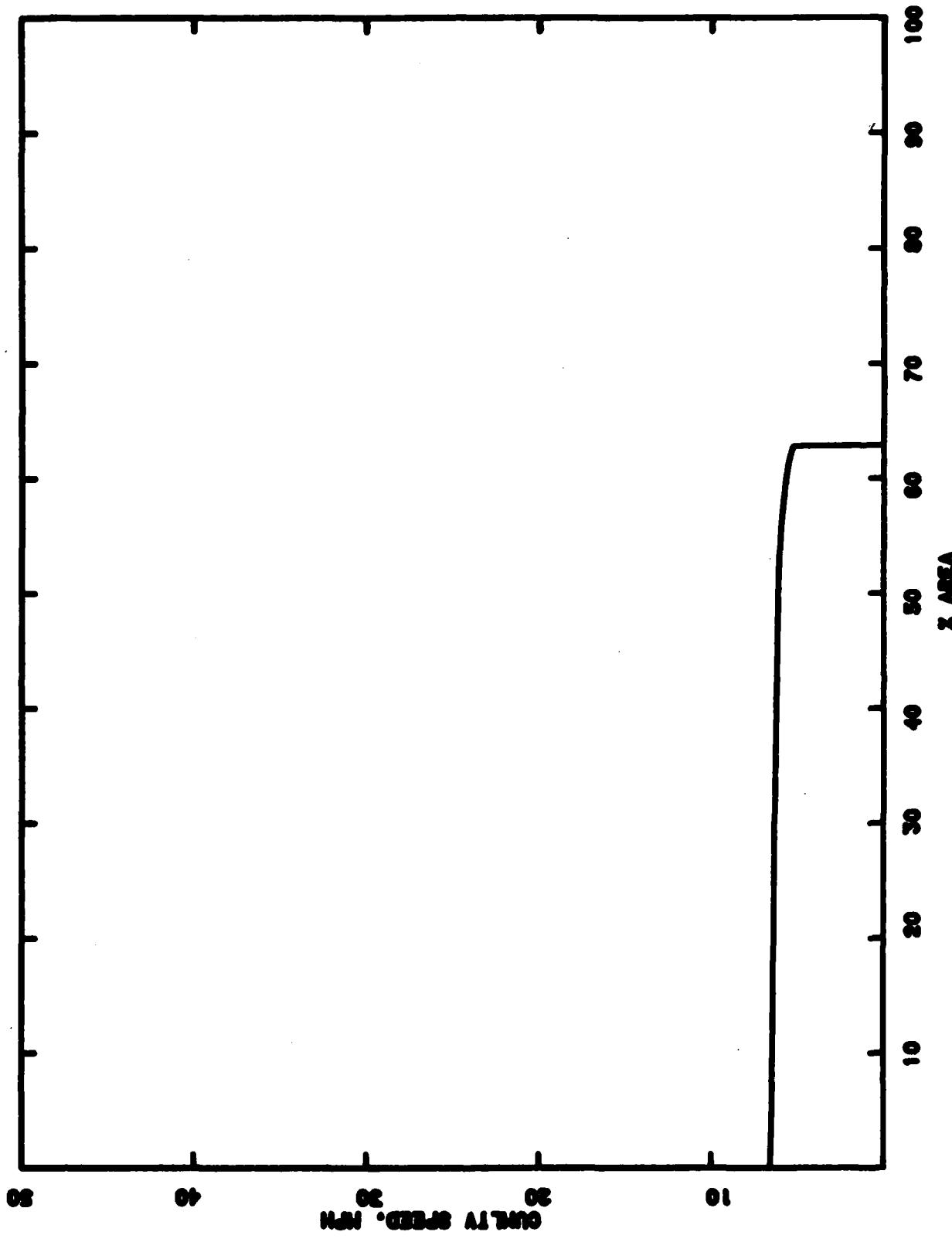


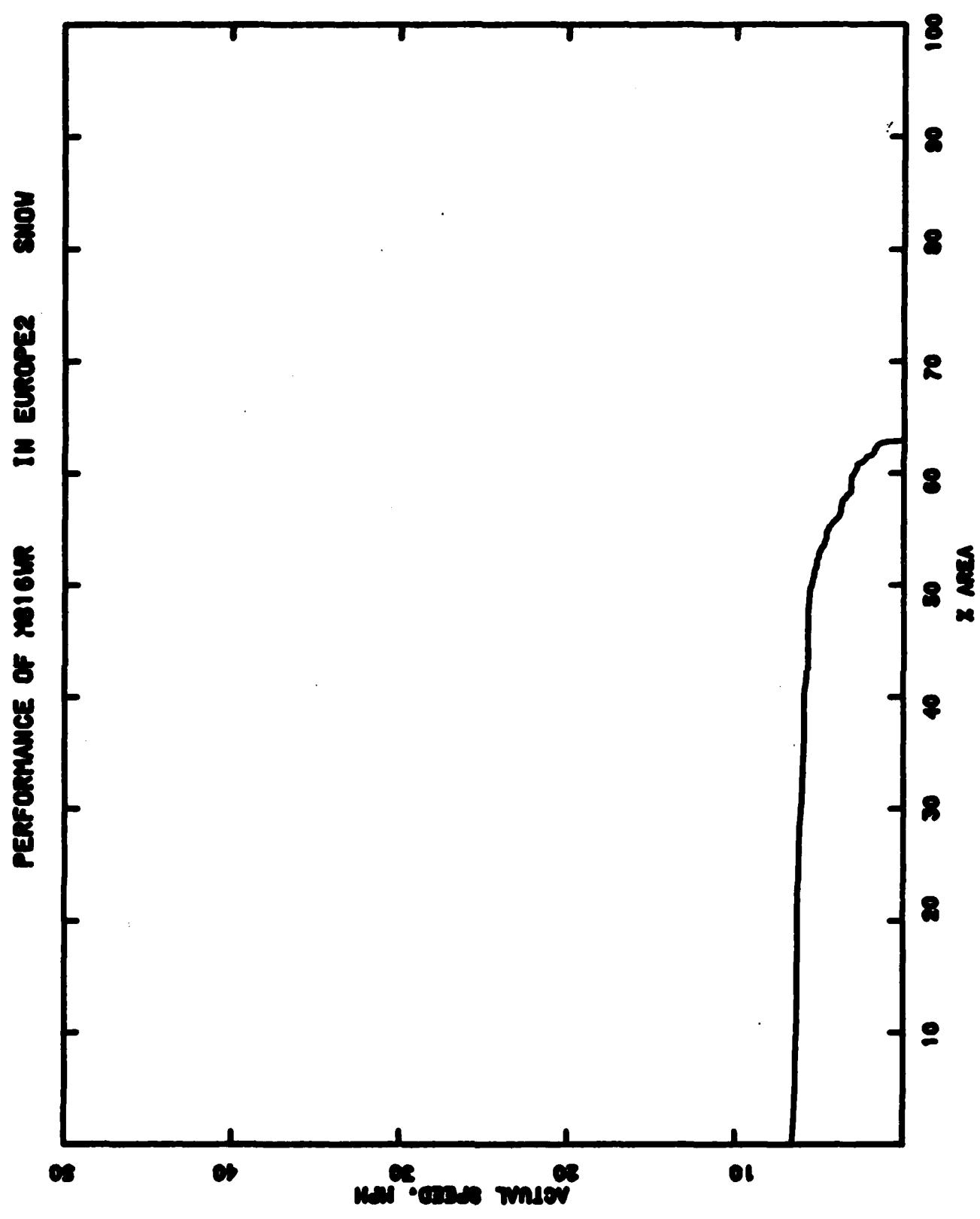
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PERFORMANCE OF M816MR IN EUROPE2 WET

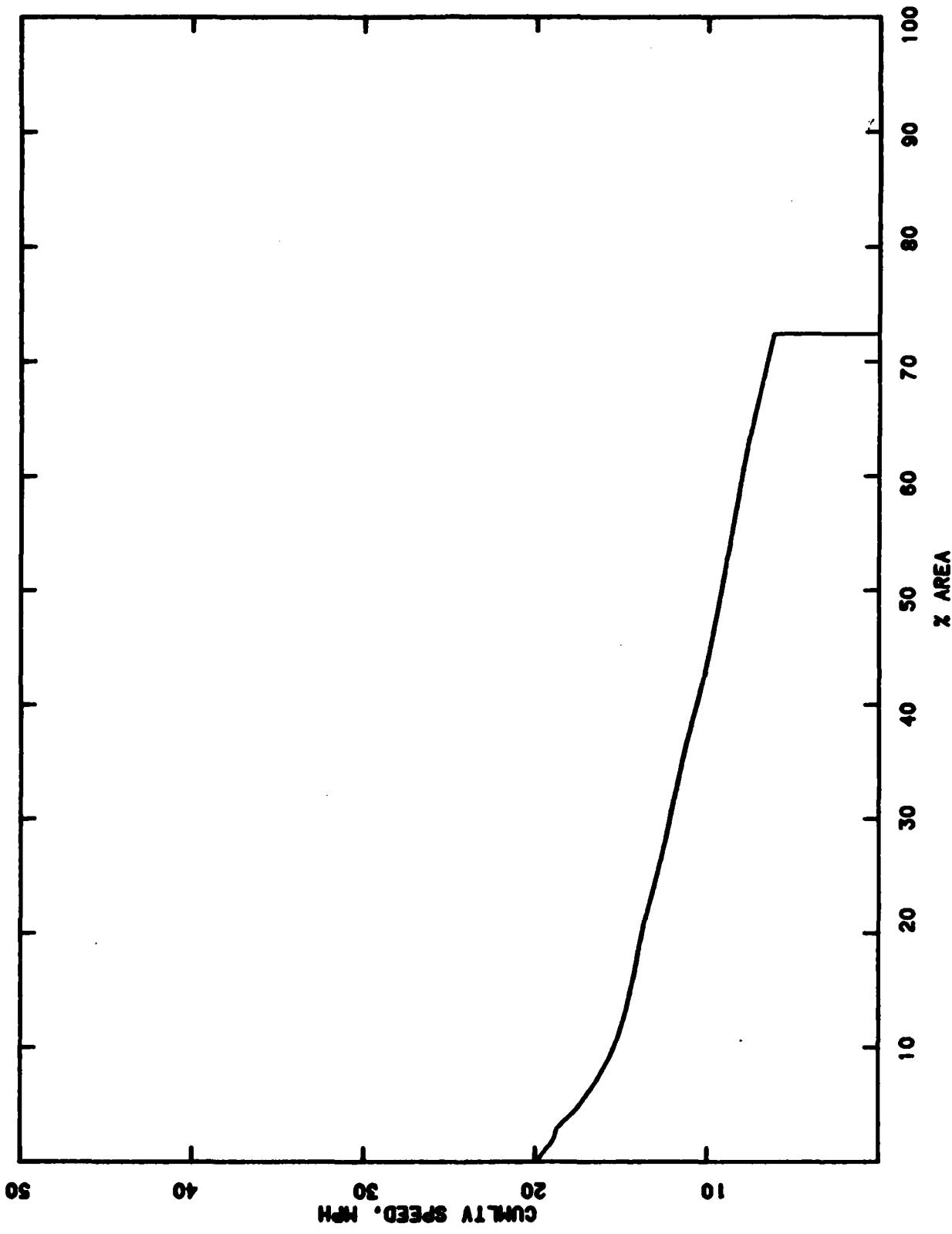


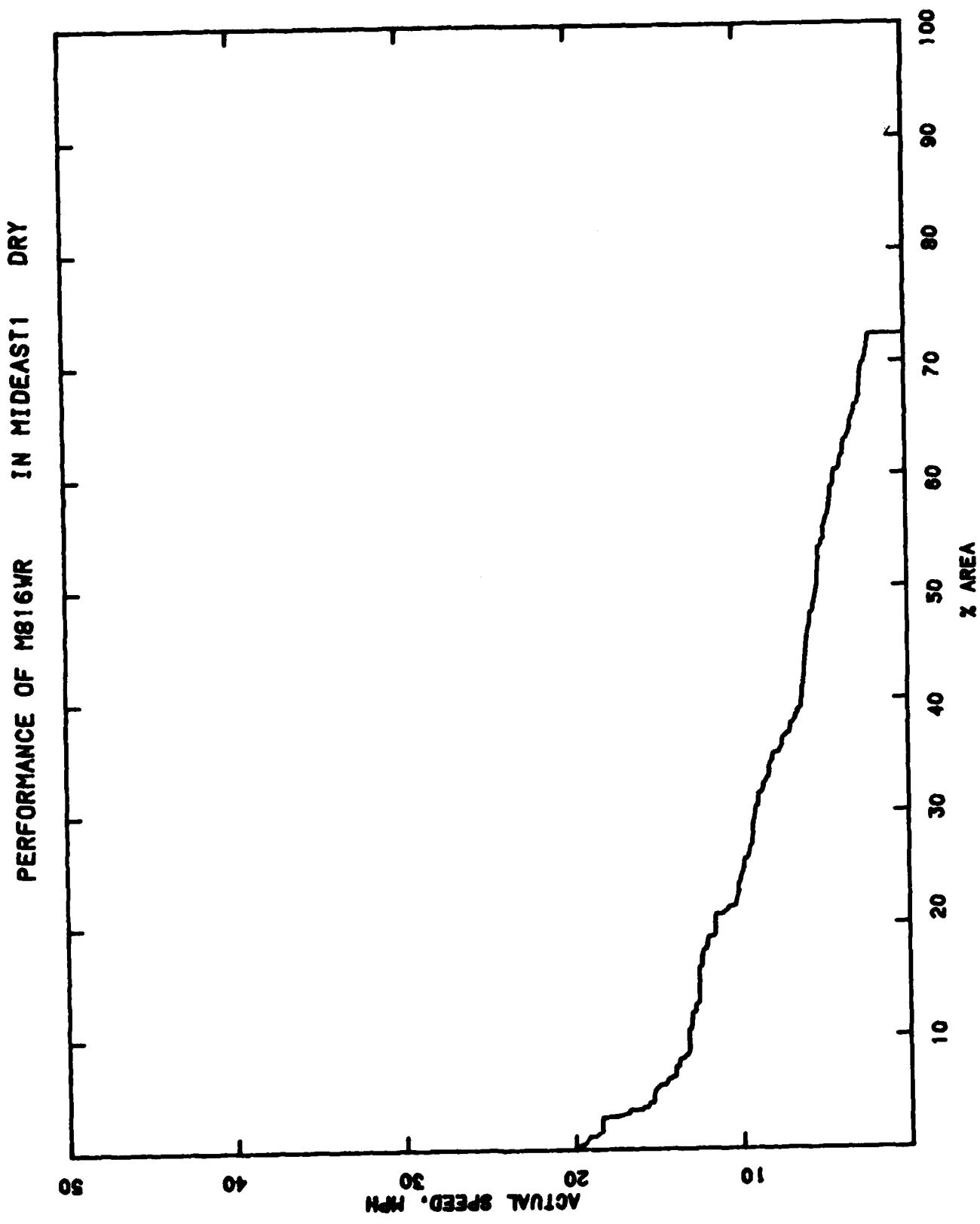
PERFORMANCE OF H316UR IN EUROPE2 SNOW



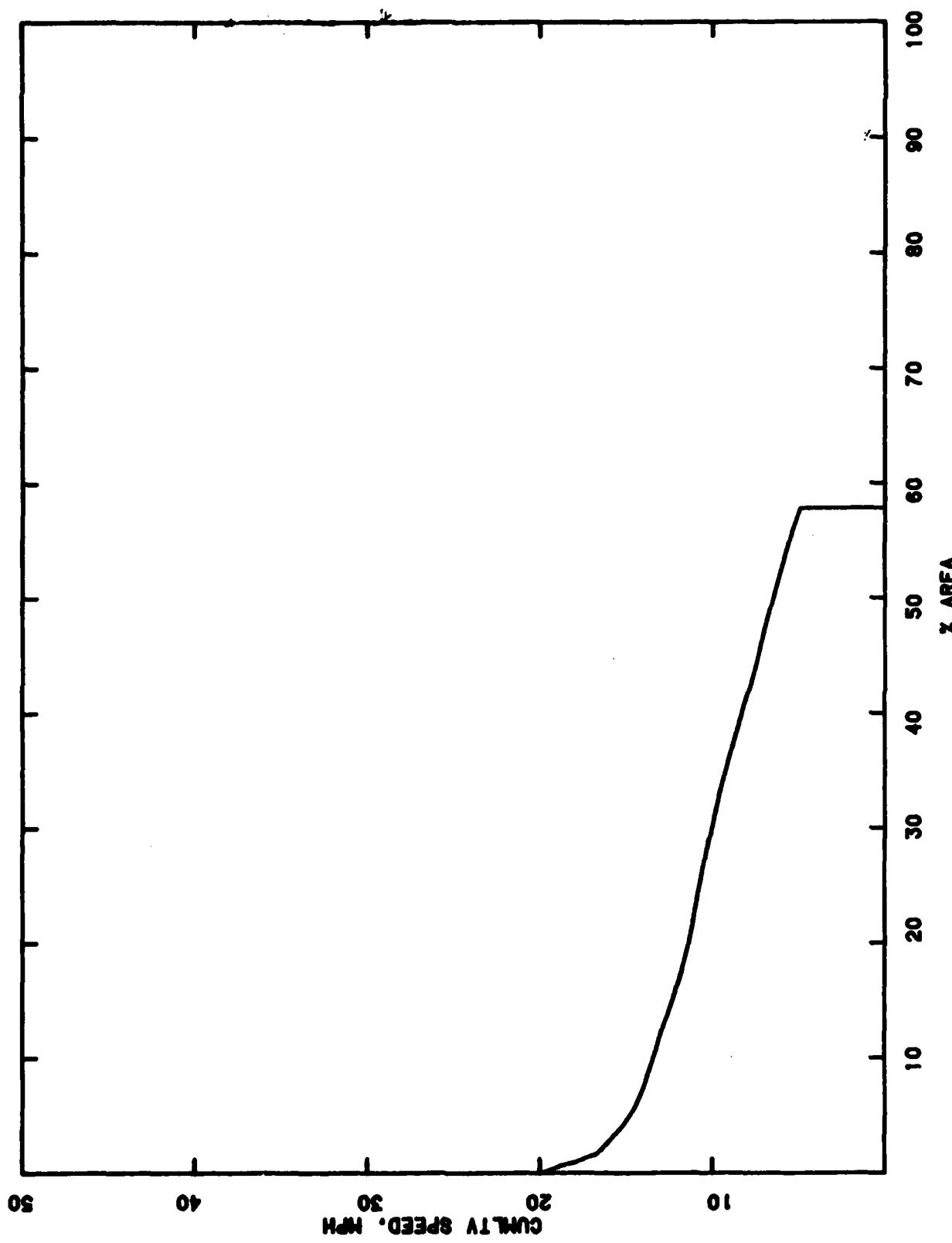


PERFORMANCE OF M816MR
IN MIDEAST I DRY

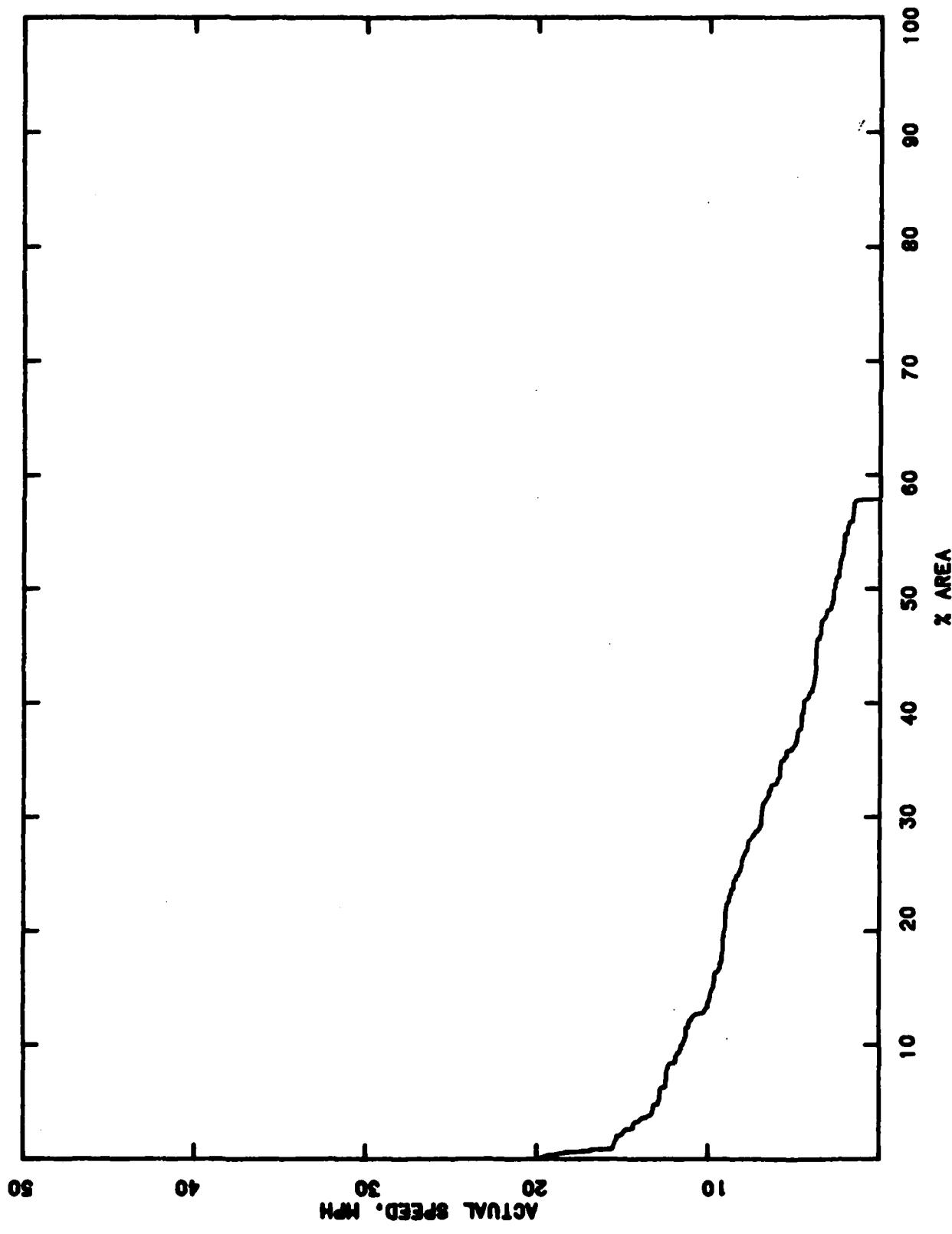




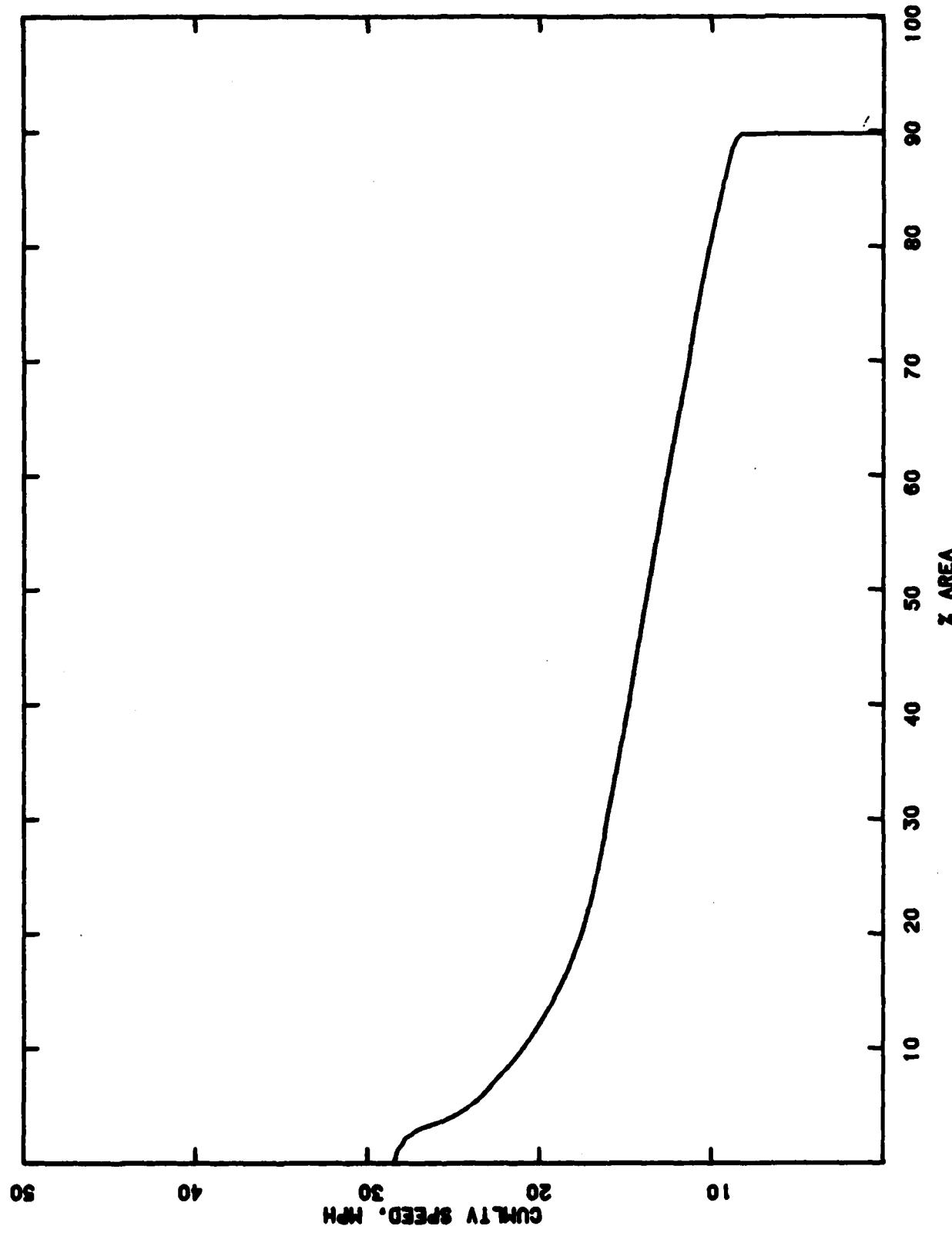
PERFORMANCE OF M816WR IN MIDEAST 1 WET

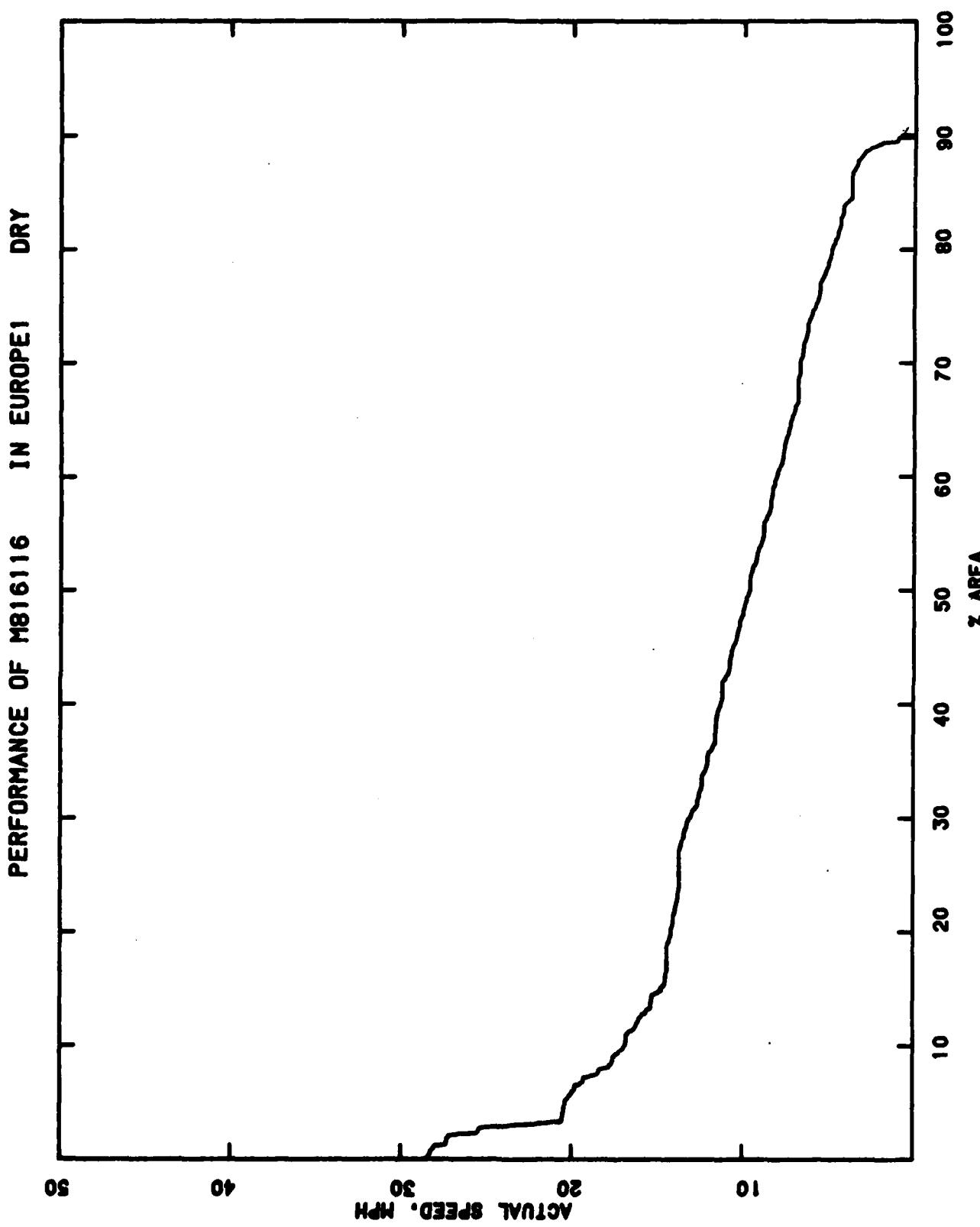


PERFORMANCE OF M816HR IN MIDEAST 1 WET

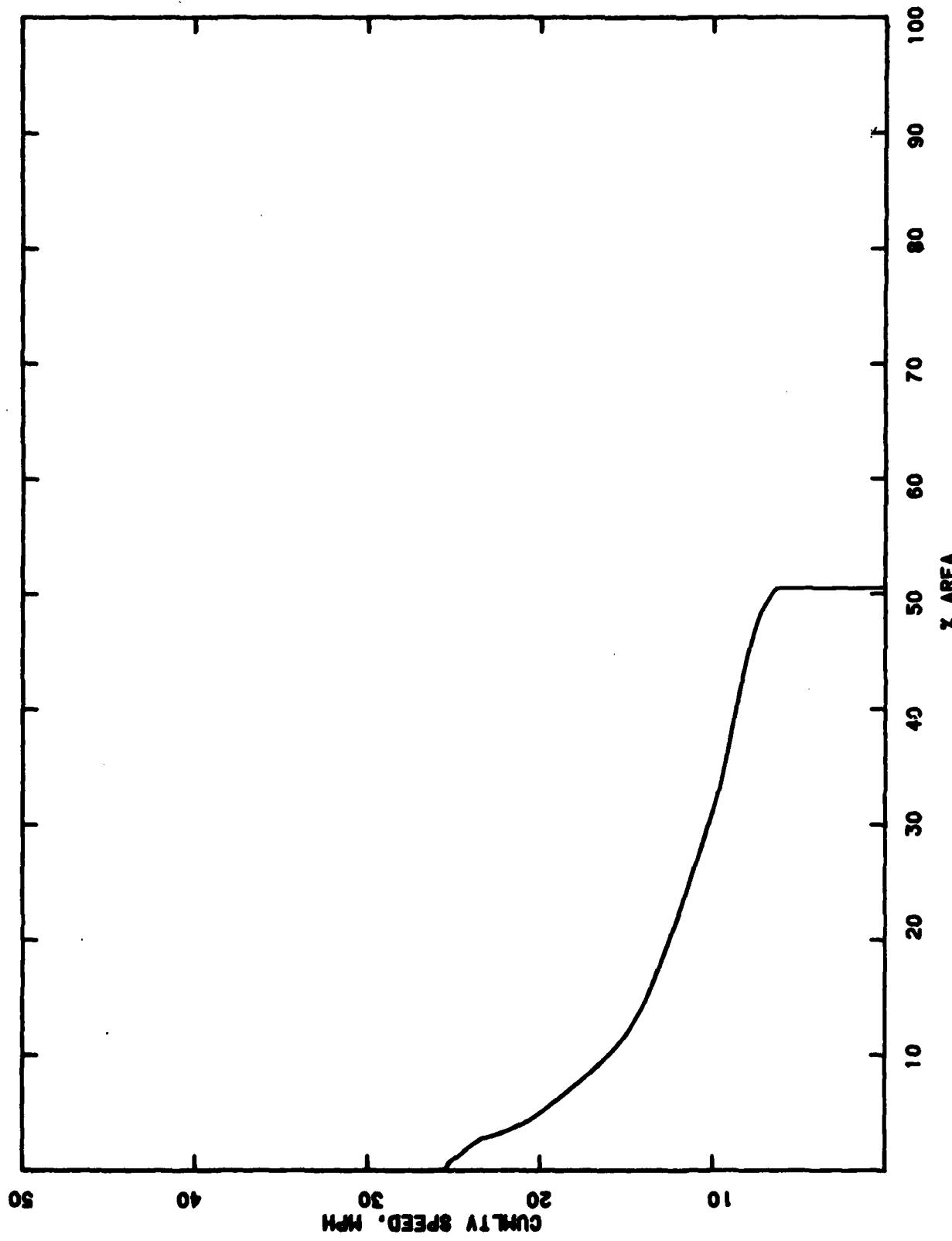


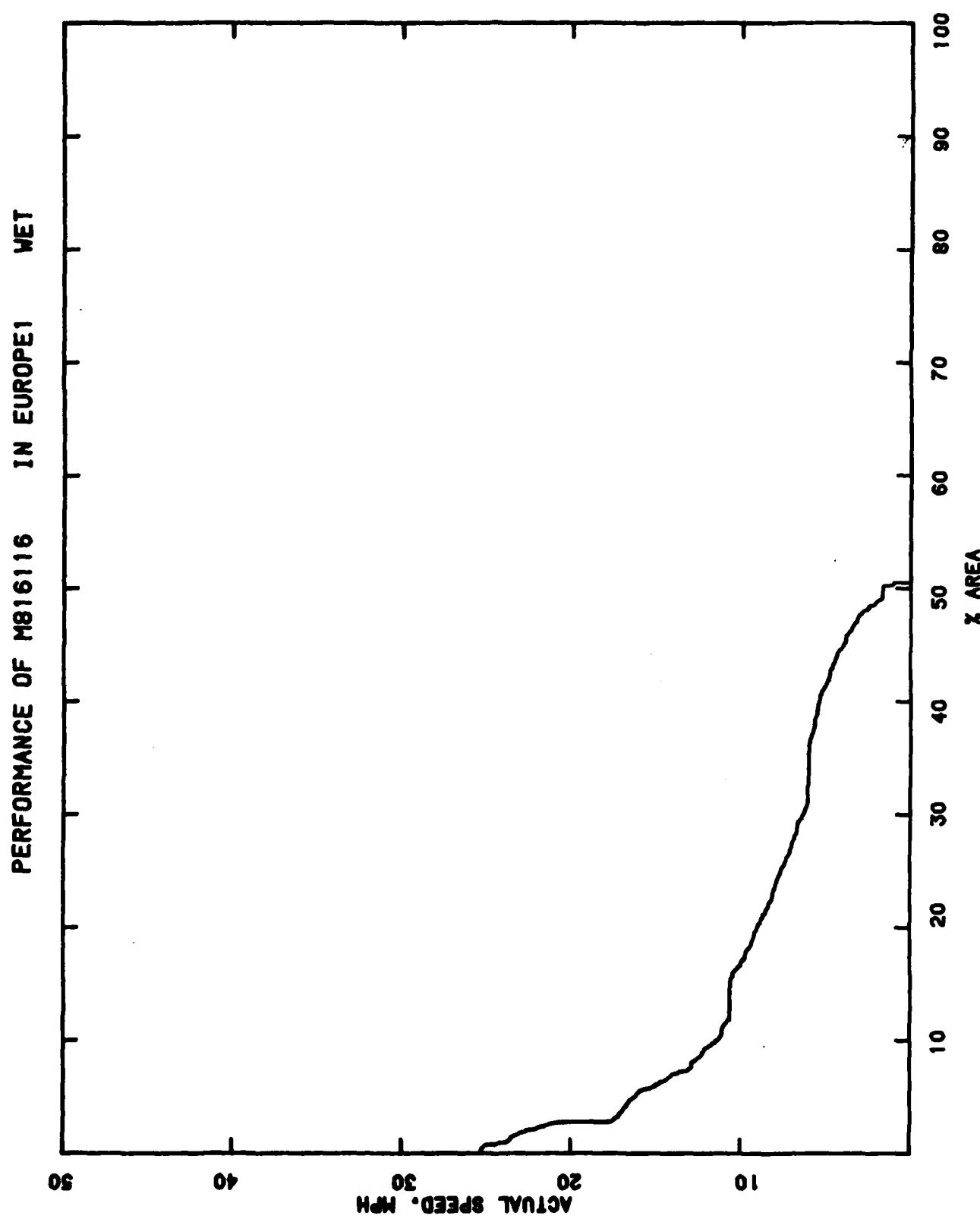
PERFORMANCE OF M816116 IN EUROPE I DRY



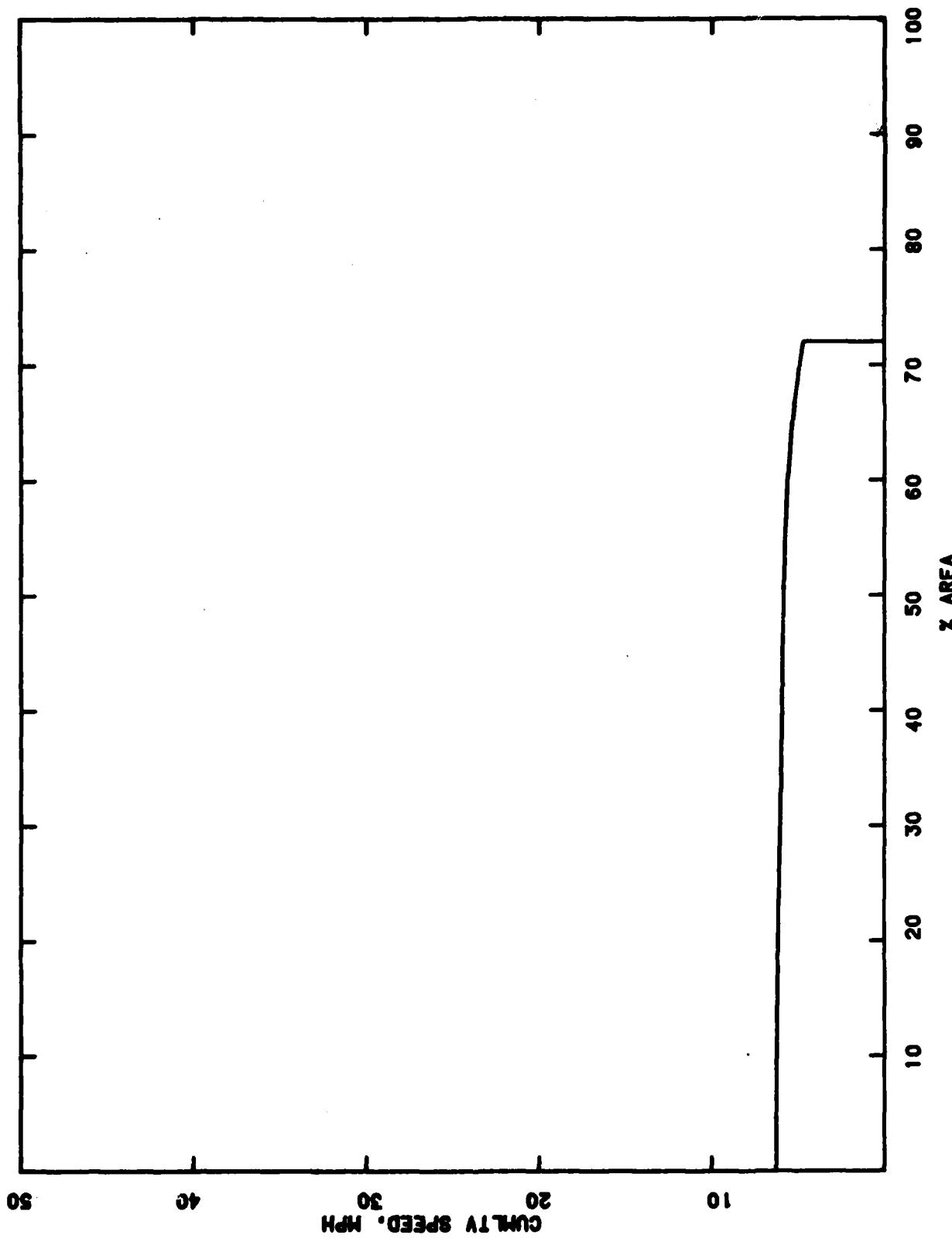


PERFORMANCE OF M816116 IN EUROPE1 WET



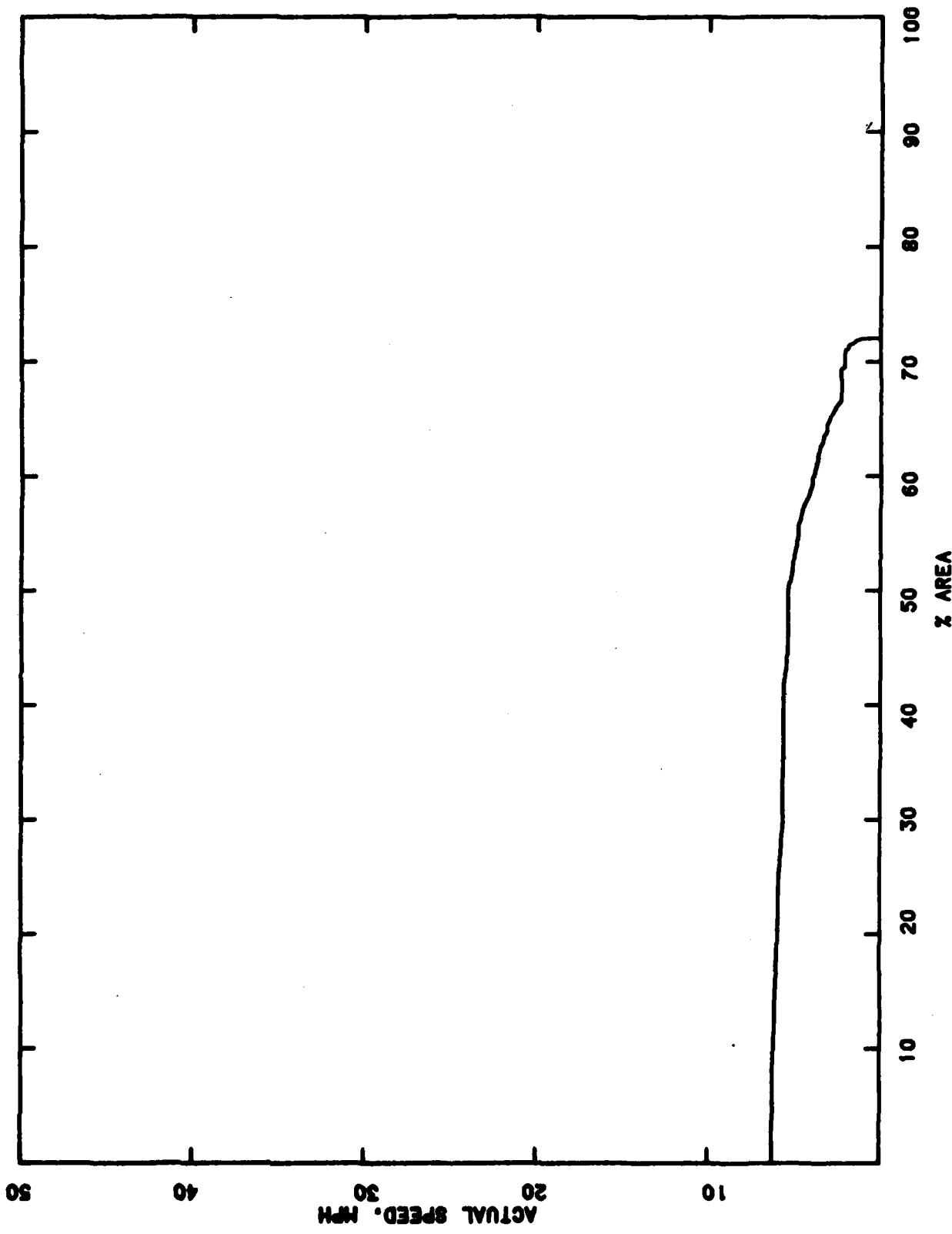


PERFORMANCE OF M816116 IN EUROPE1 SNOW

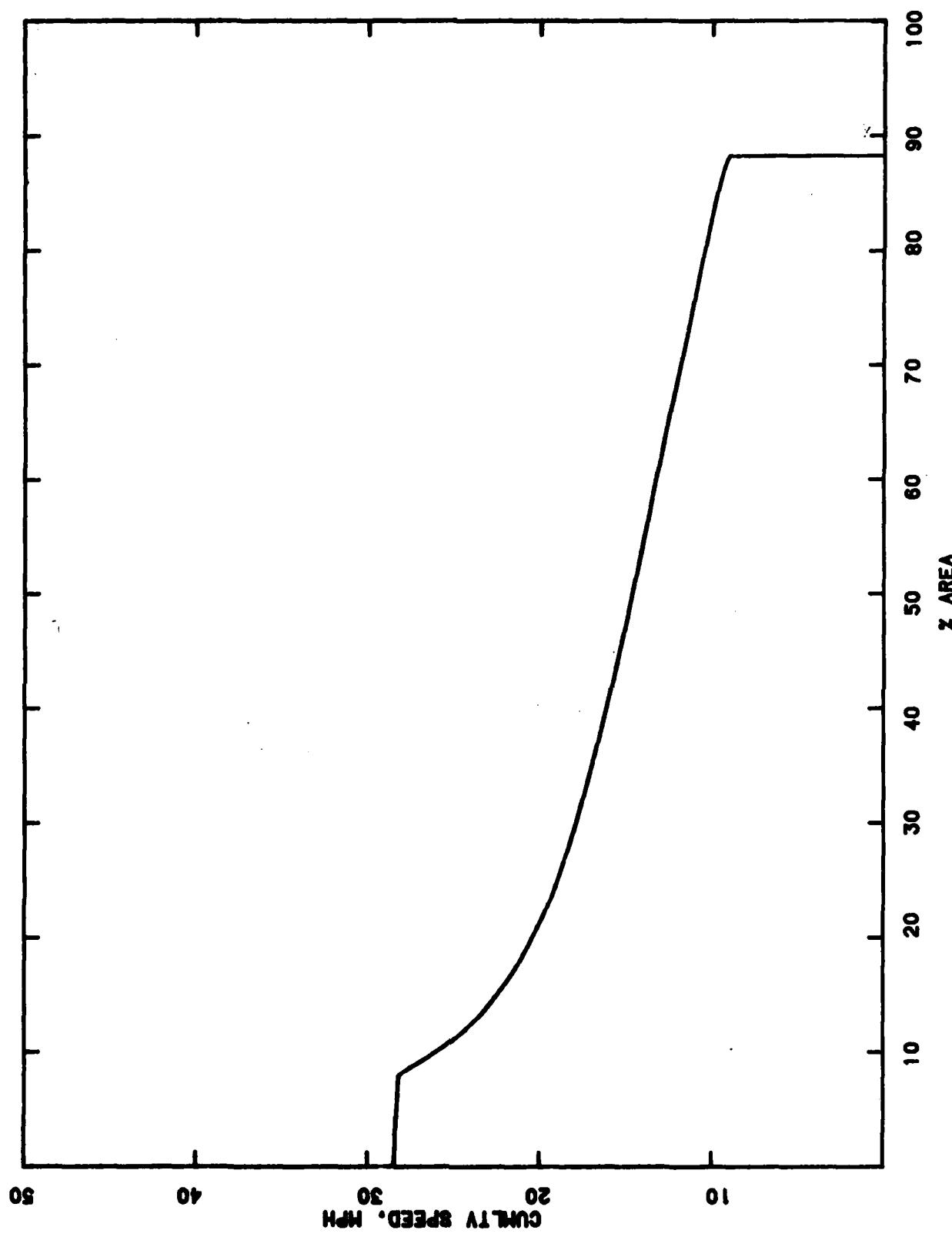


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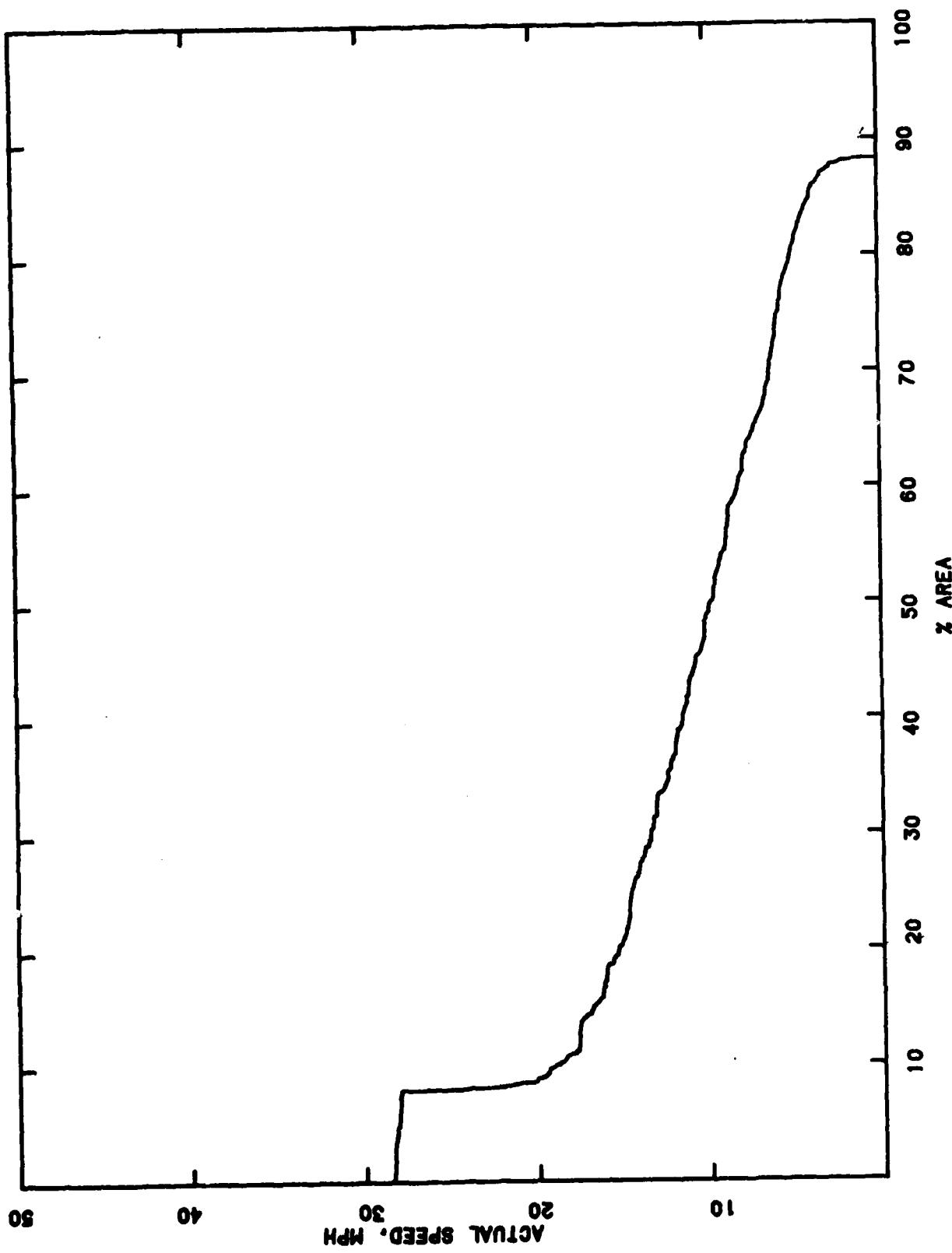
PERFORMANCE OF M816116 IN EUROPE1 SNOW



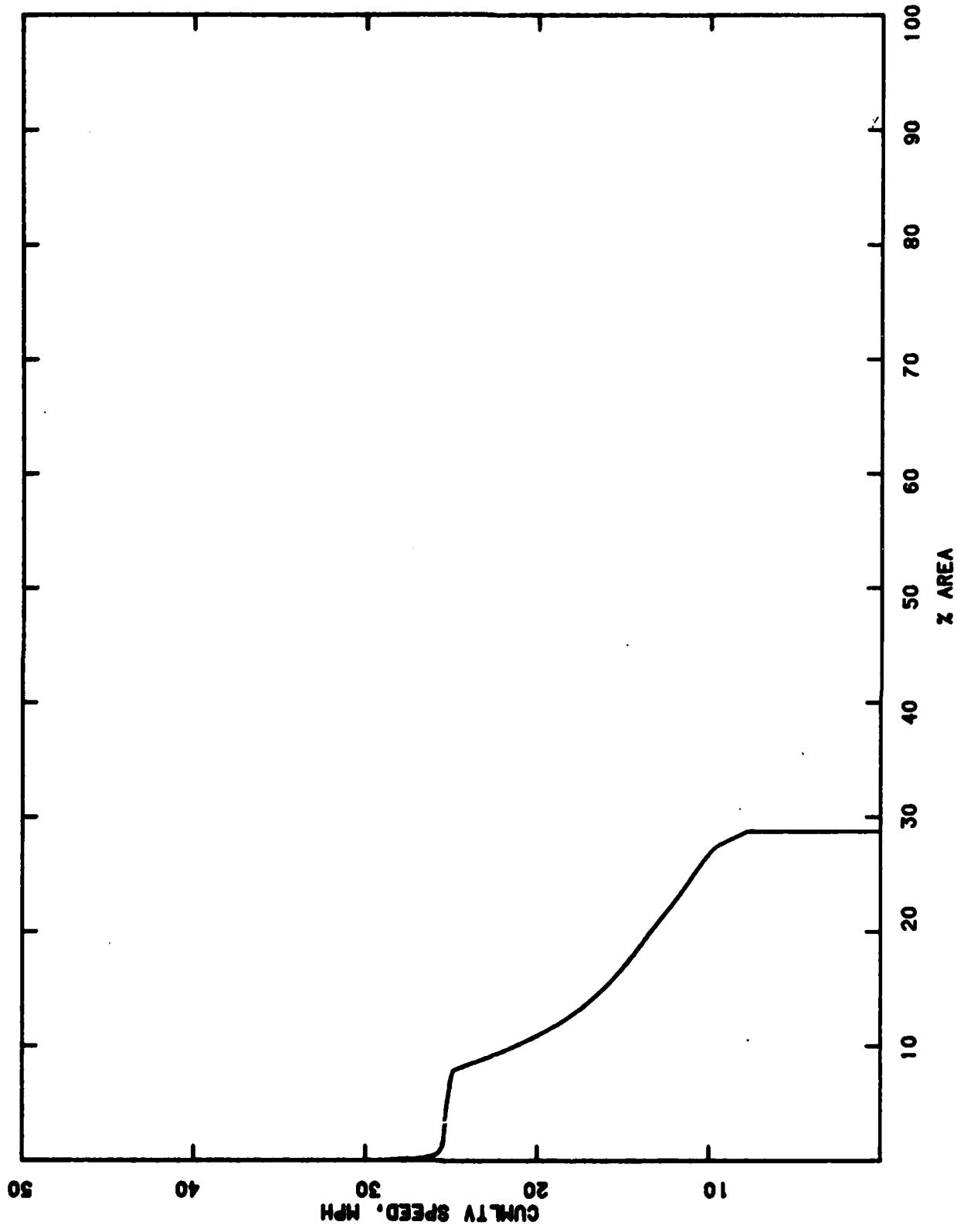
PERFORMANCE OF M816116 IN EUROPE2 DRY



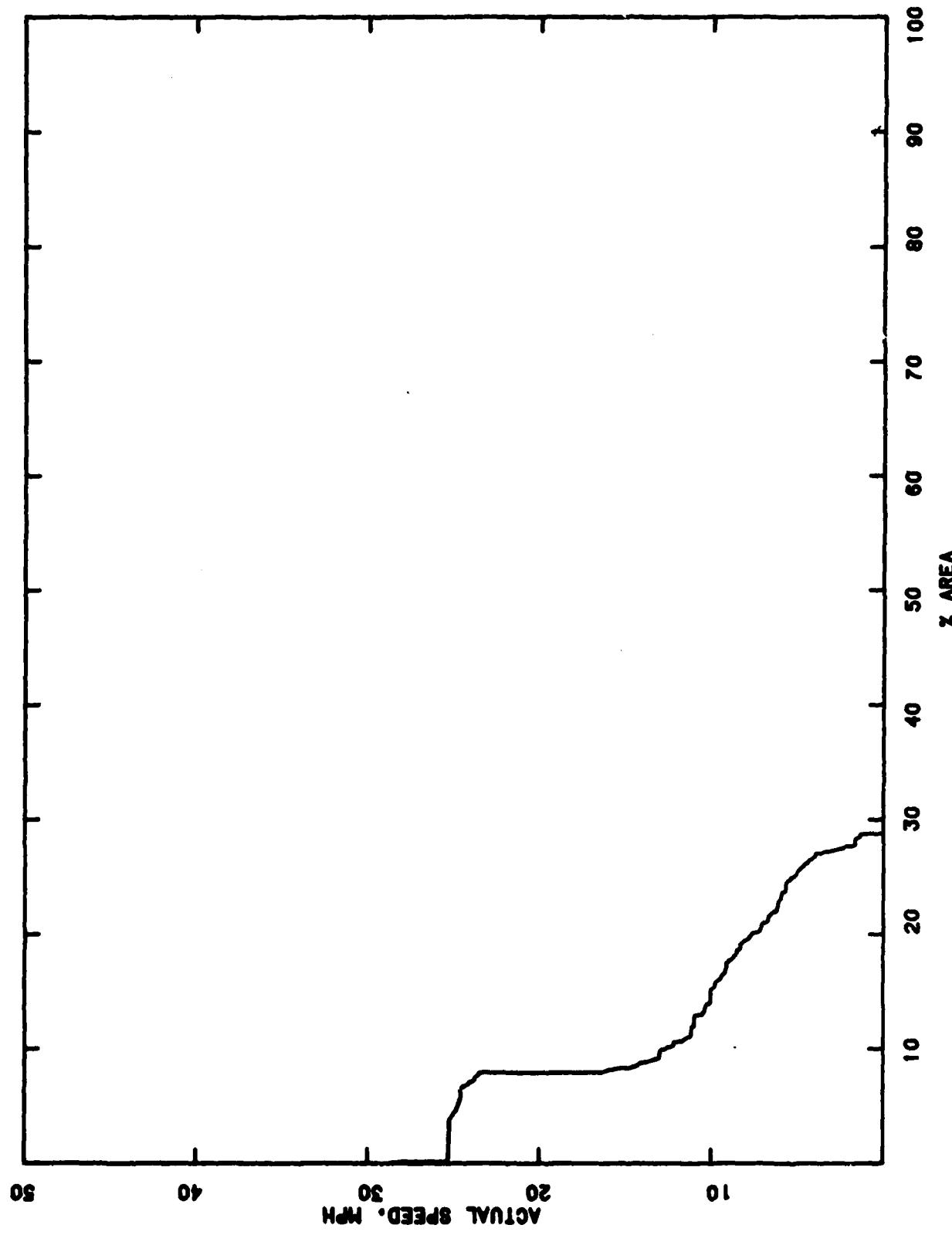
PERFORMANCE OF M816116 IN EUROPE2 DRY



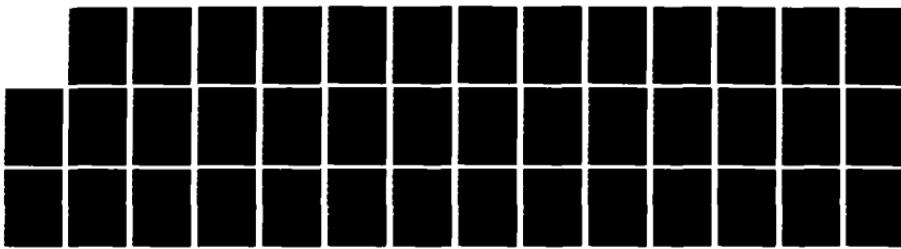
PERFORMANCE OF M816116 IN EUROPE2 WET



PERFORMANCE OF M816116 IN EUROPE2 WET

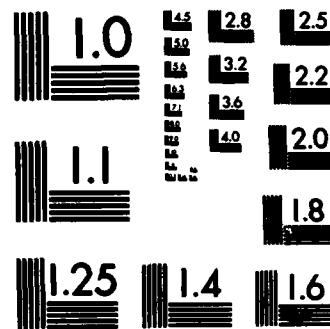


AD-A133 700 MOBILITY AND TRANSPORTATION ANALYSIS IN SUPPORT OF THE 3/3
LIGHT ATTACK BATTALION. (U) ARMY MATERIEL SYSTEMS ANALYSIS
ACTIVITY ABERDEEN PROVING GROU. C R DIETZ ET AL.
UNCLASSIFIED MAY 83 AMSAA-TR-374-VOL-2 F/G 15/5 NL

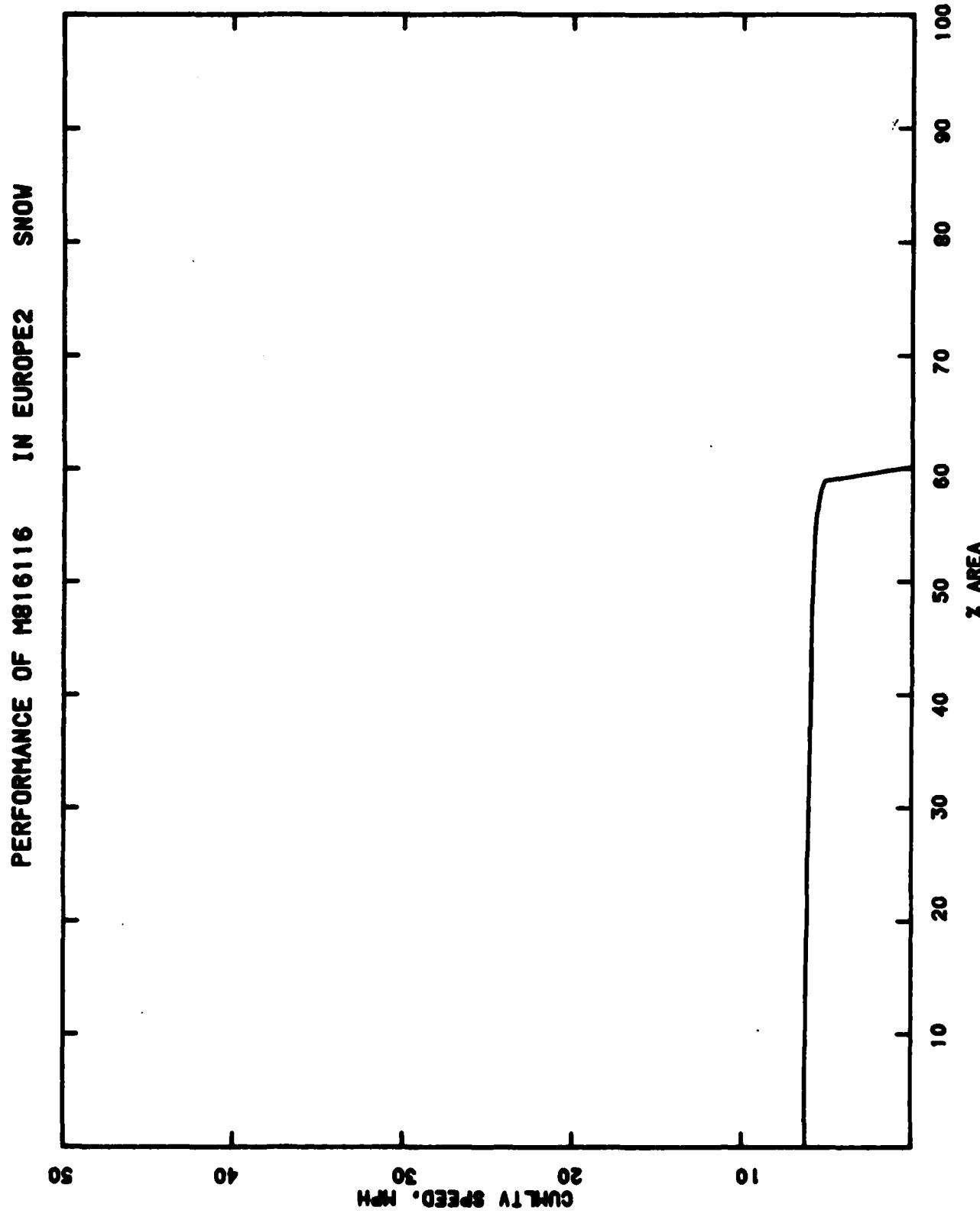


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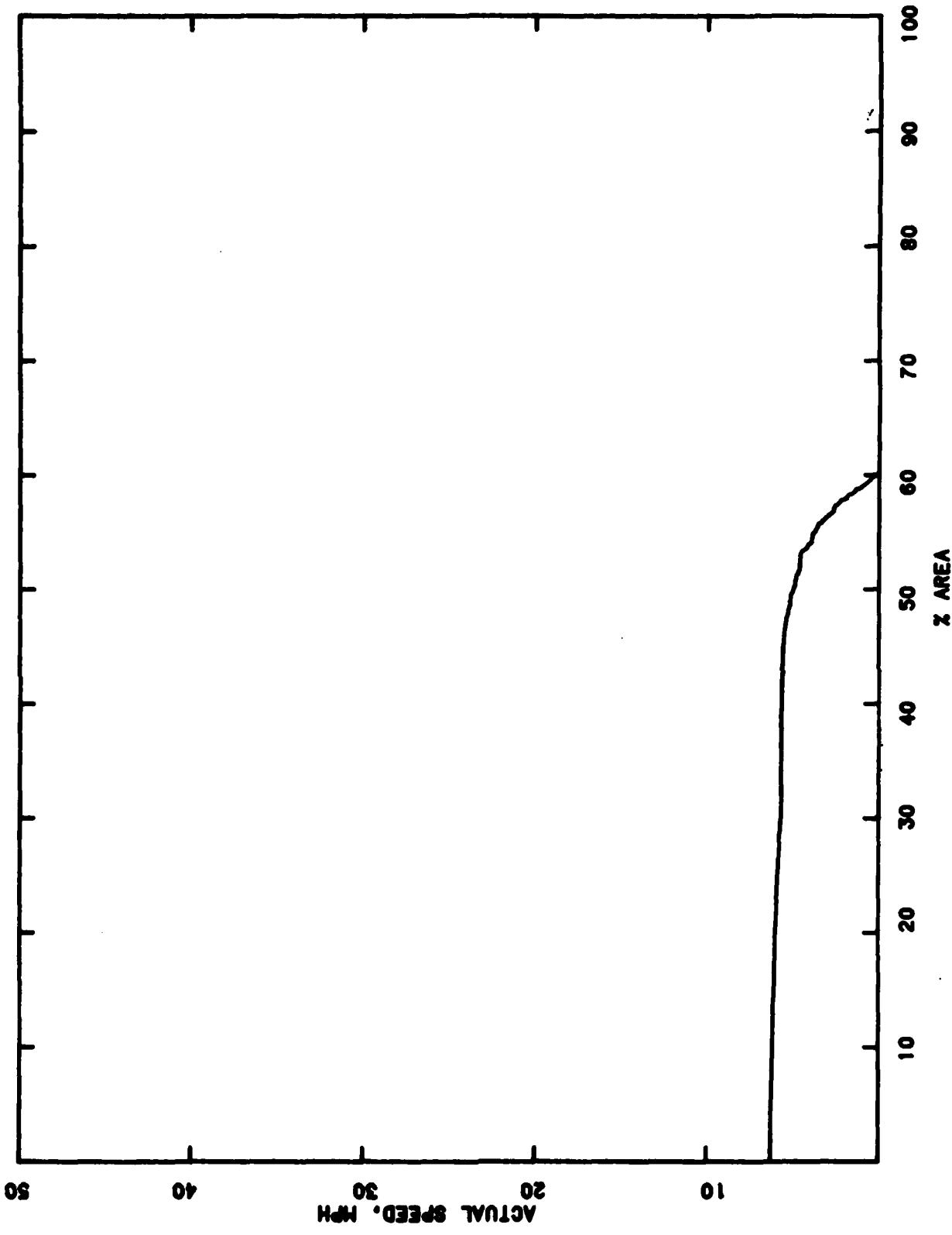




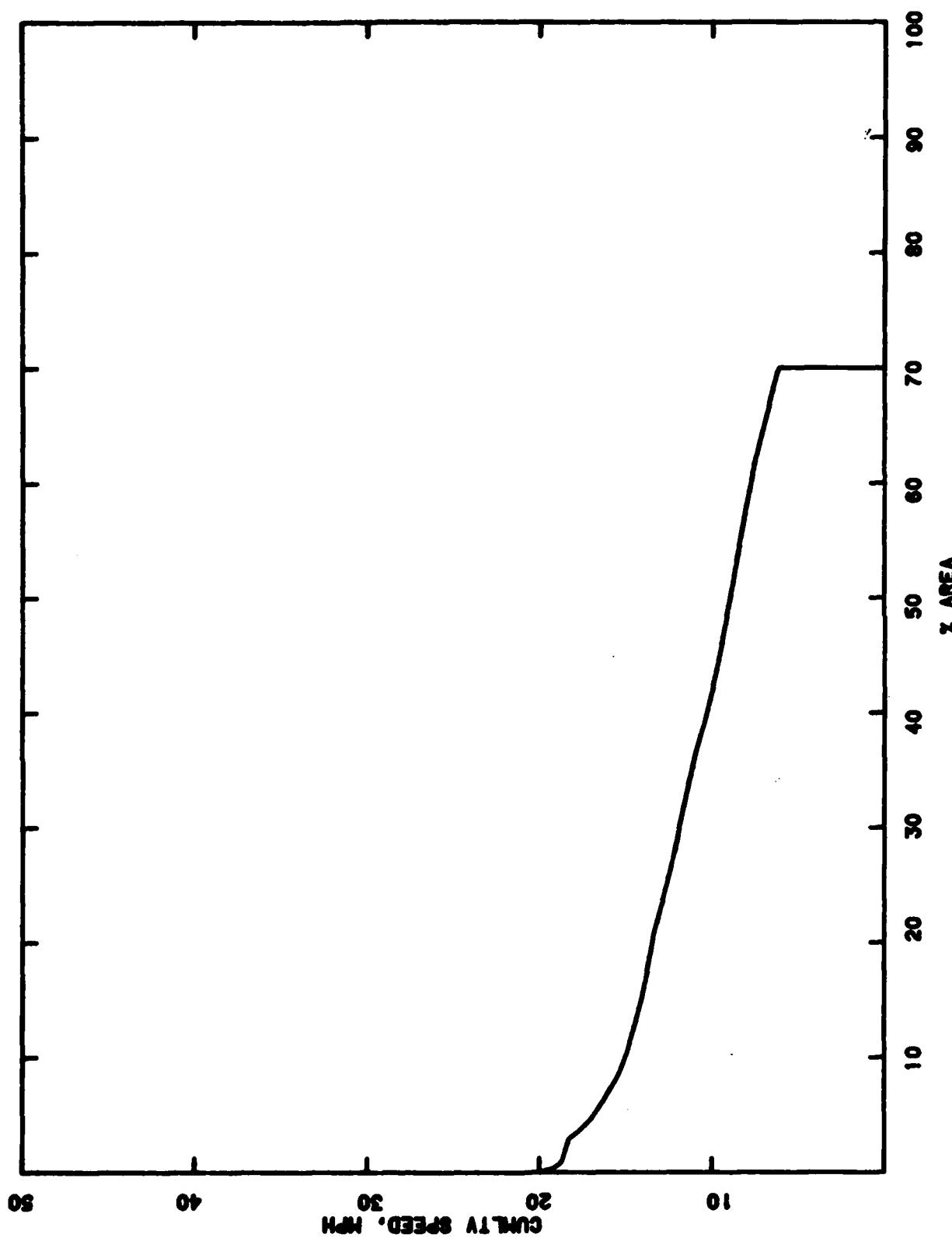
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A



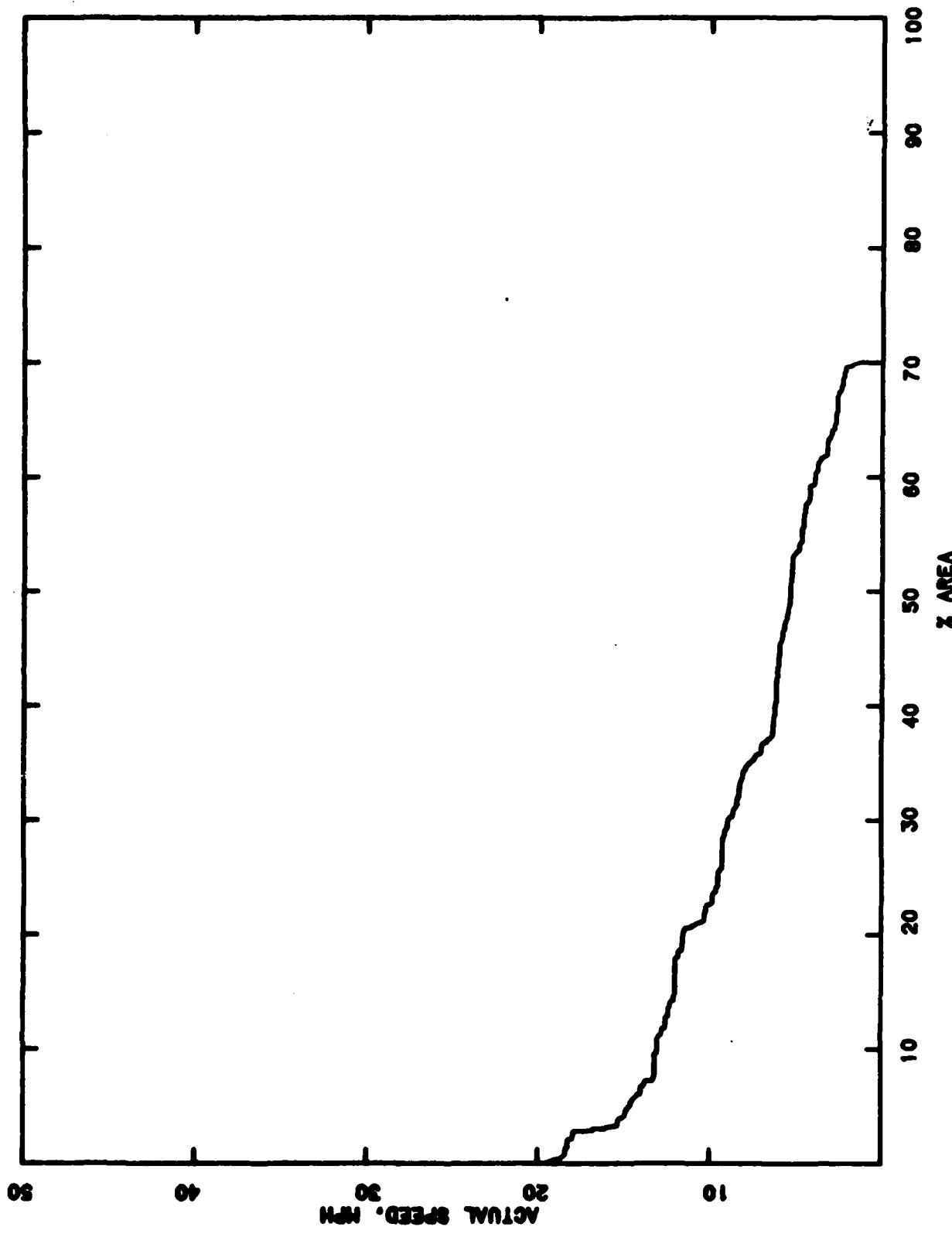
PERFORMANCE OF MB16116 IN EUROPE2 SNOW



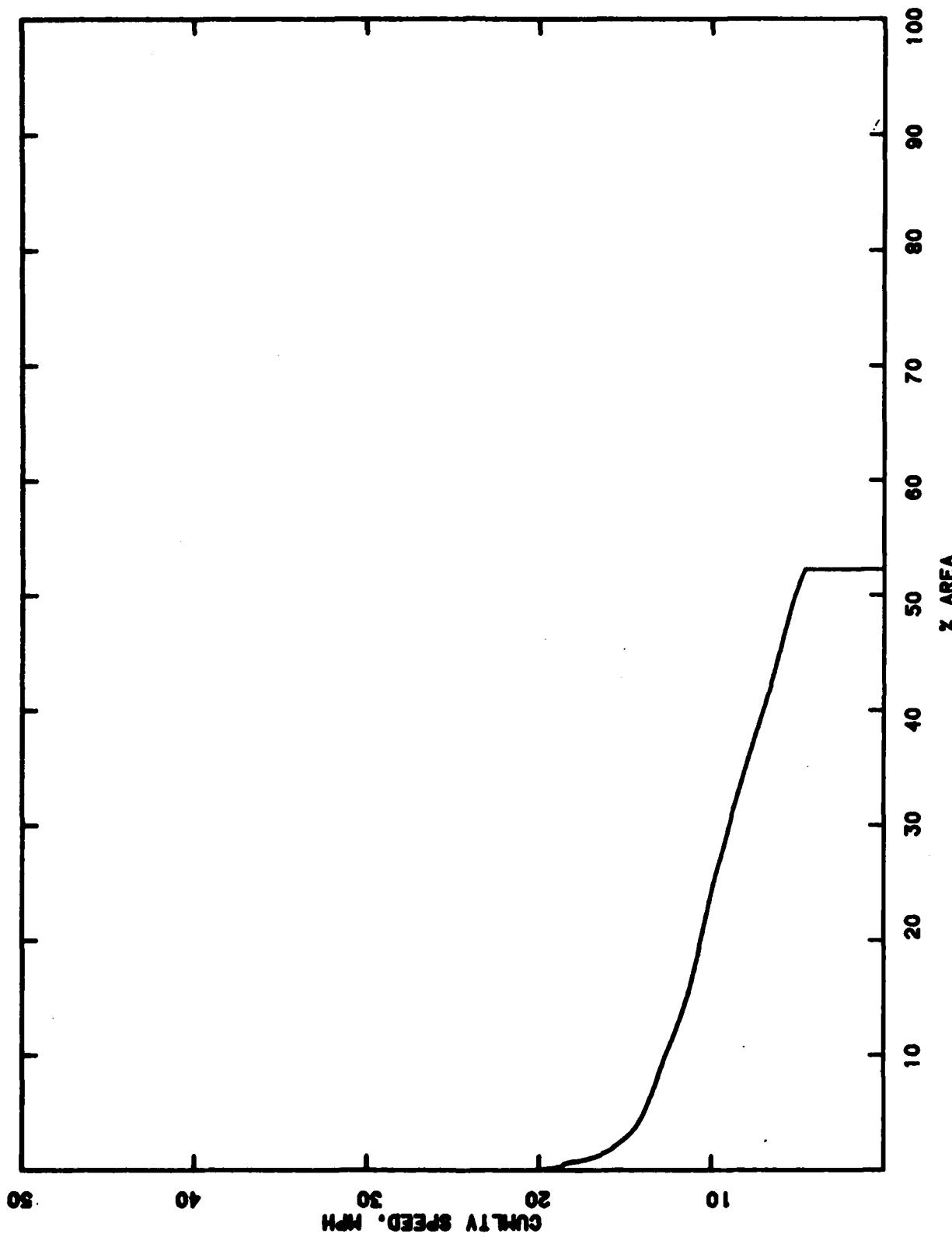
PERFORMANCE OF M816116 IN MIDEAST1 DRY



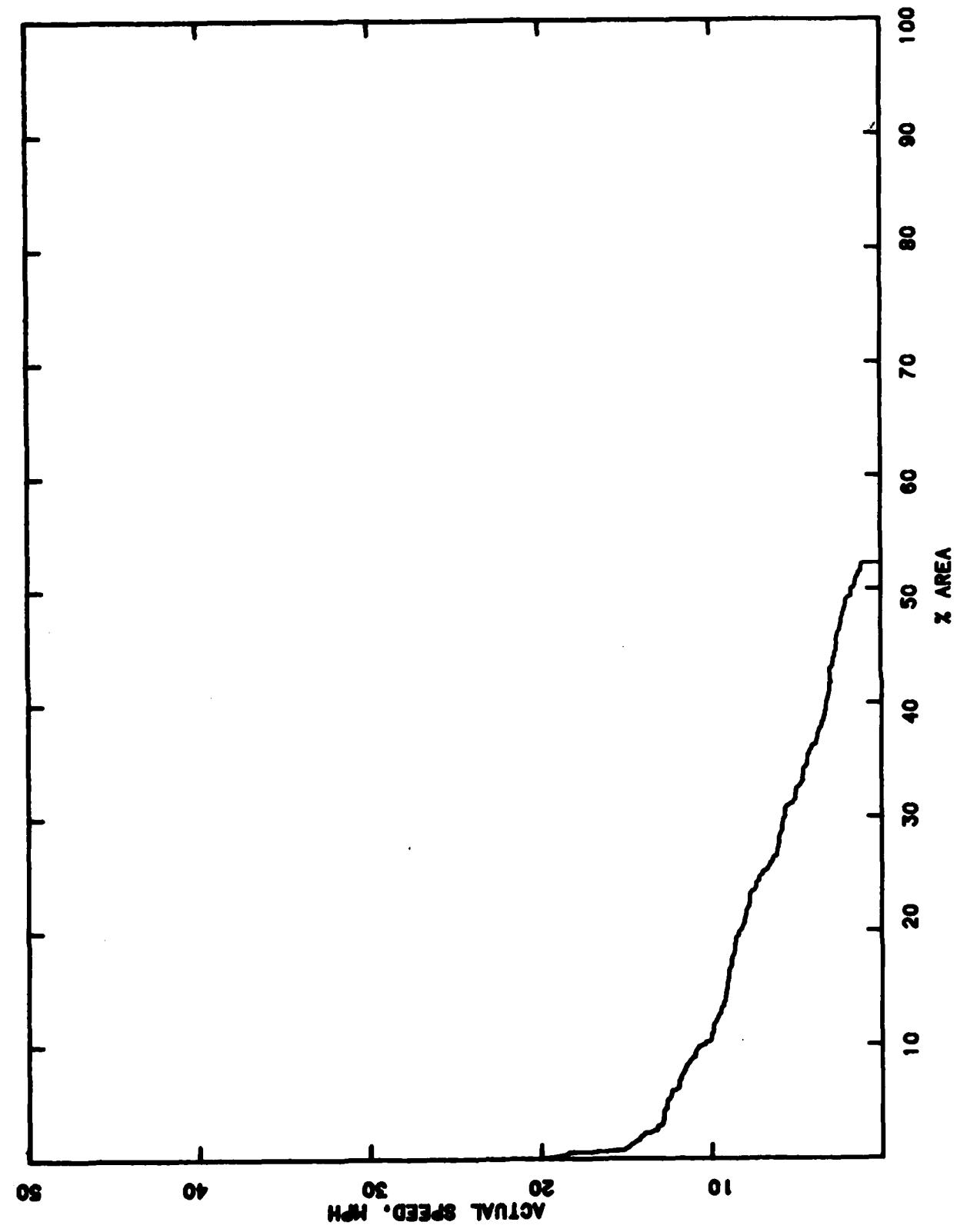
PERFORMANCE OF MB16116 IN MIDEAST! DRY

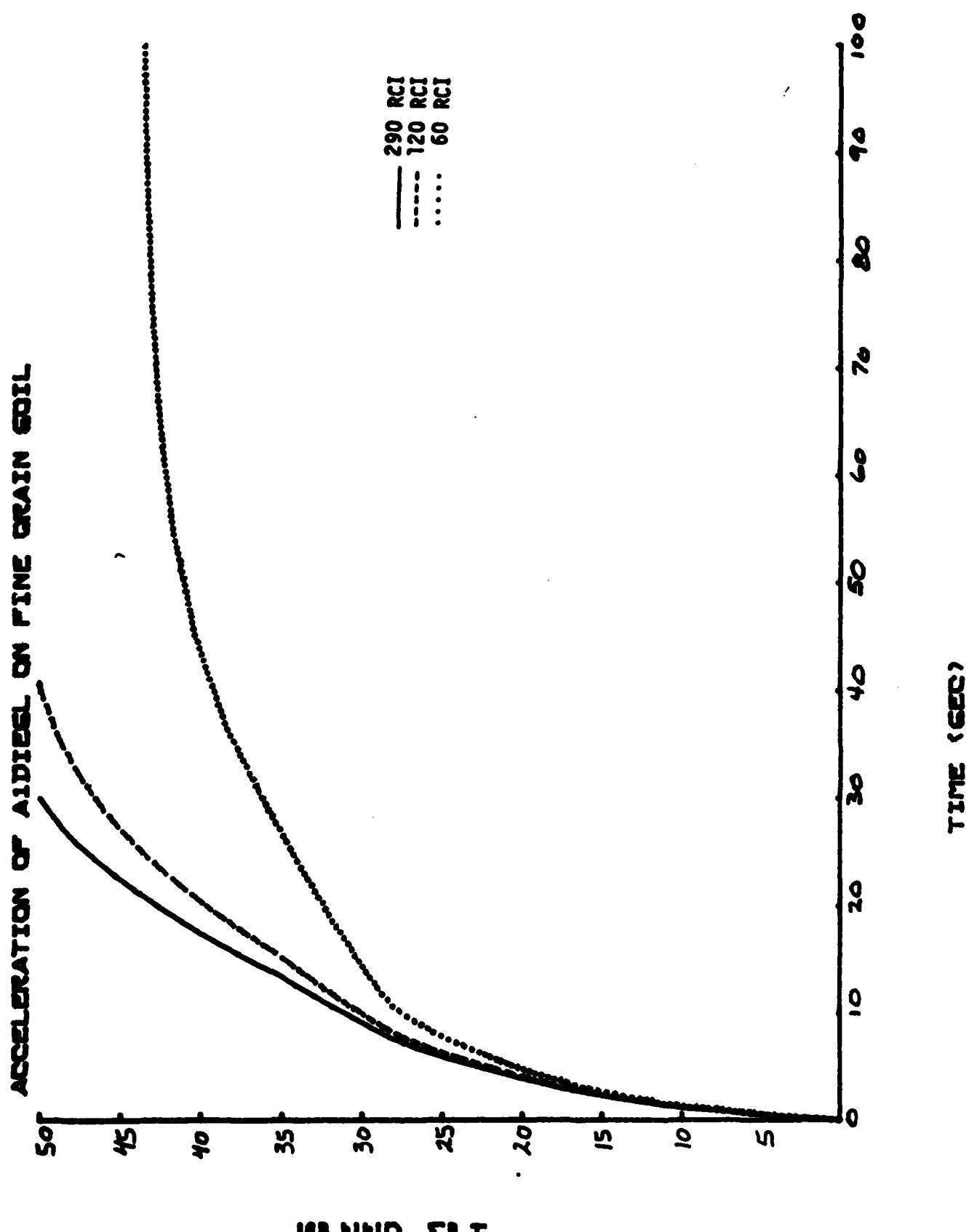


PERFORMANCE OF M816116 IN MIDEAST WET

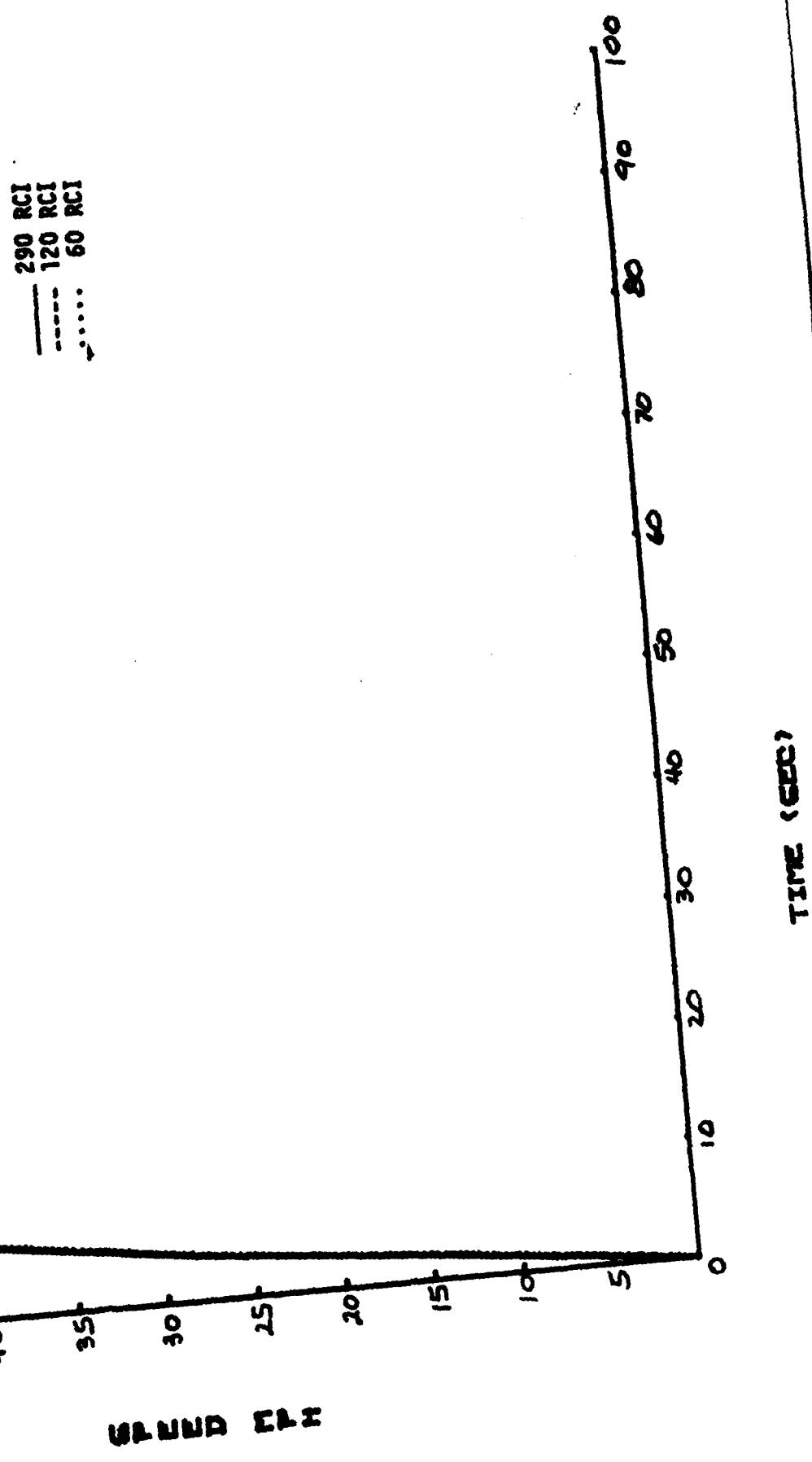


PERFORMANCE OF M816 IN MIDEAST



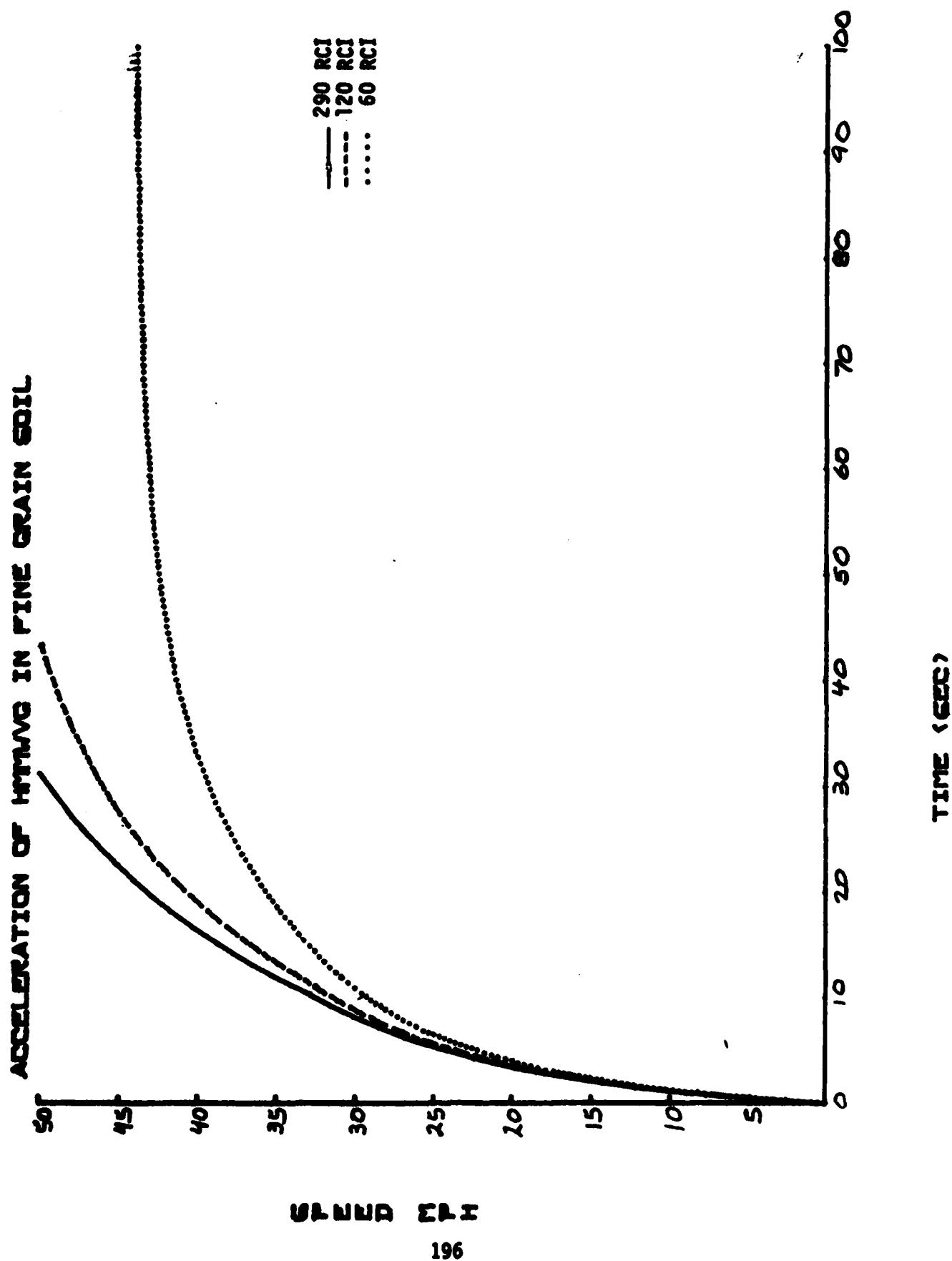


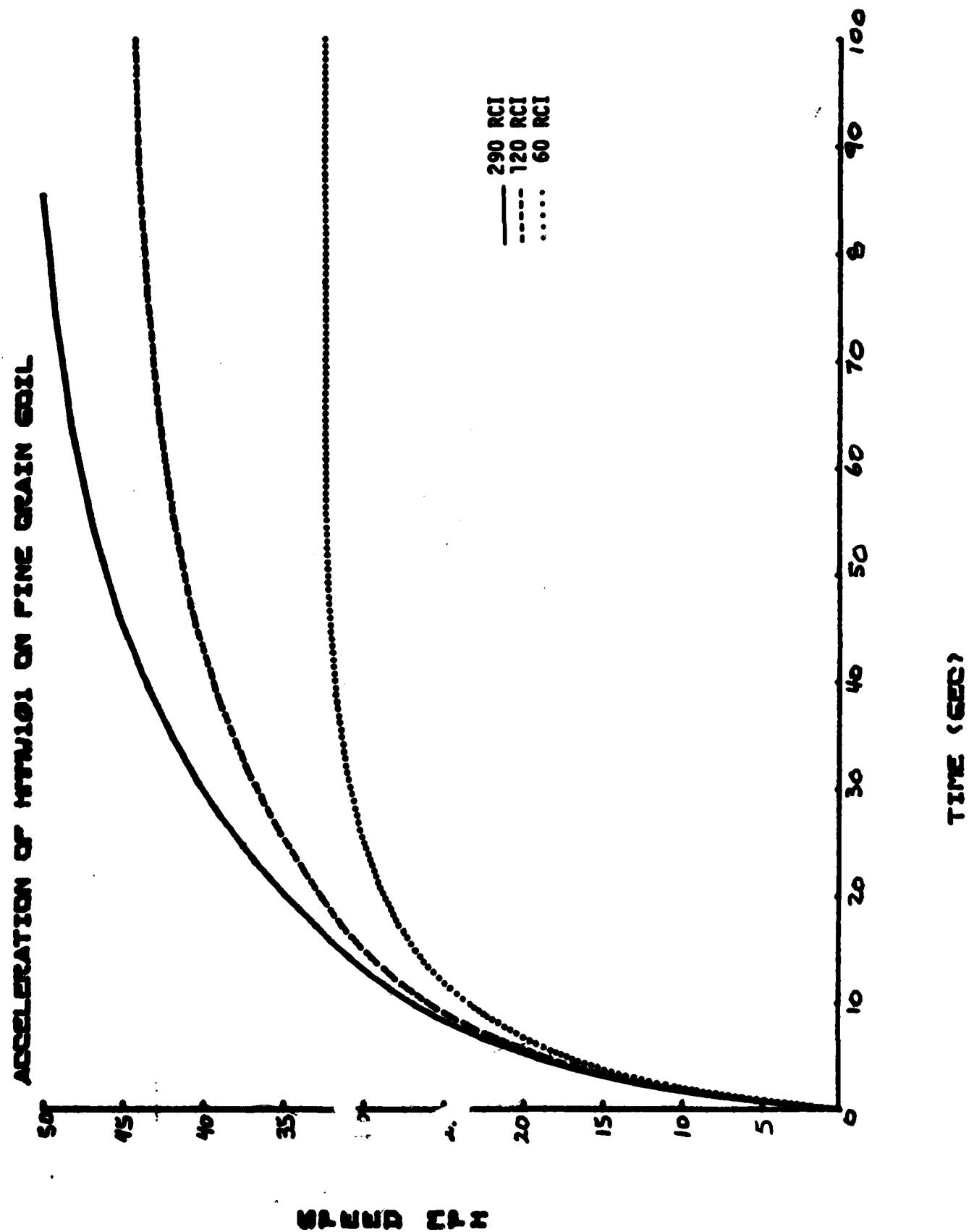
ACCELERATION OF FAN ON FINE GRAIN SOIL

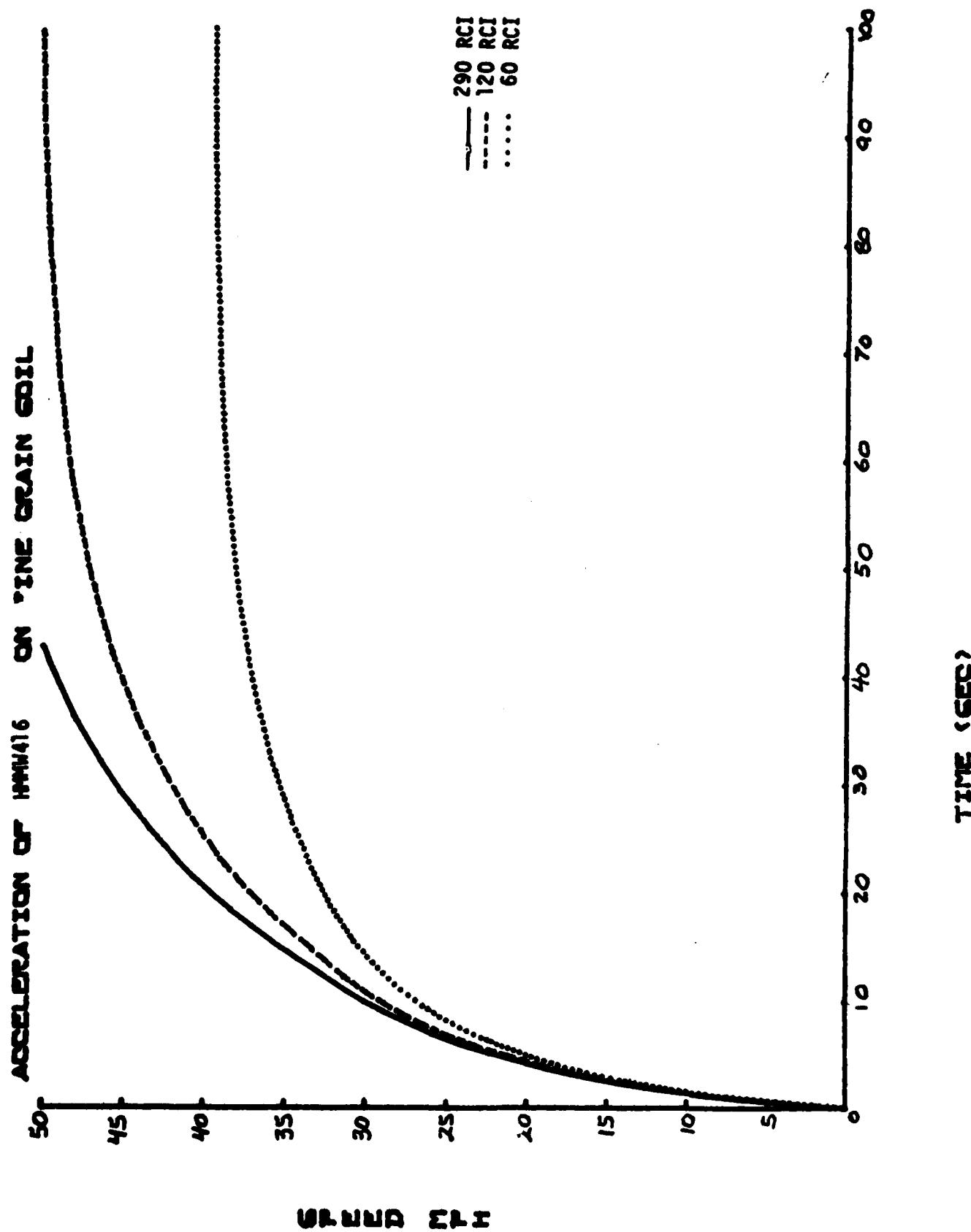


UNLWD E.P.I.

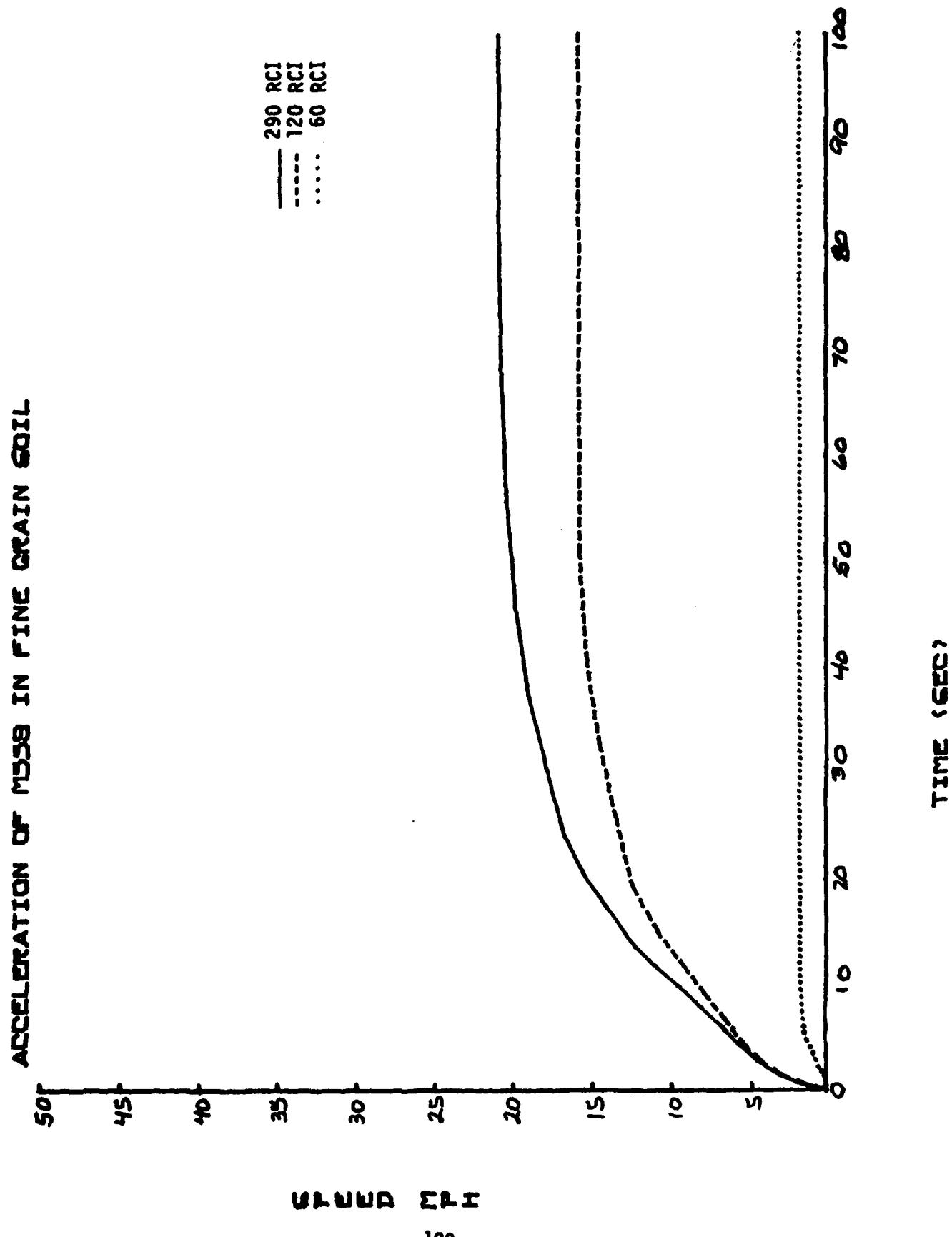
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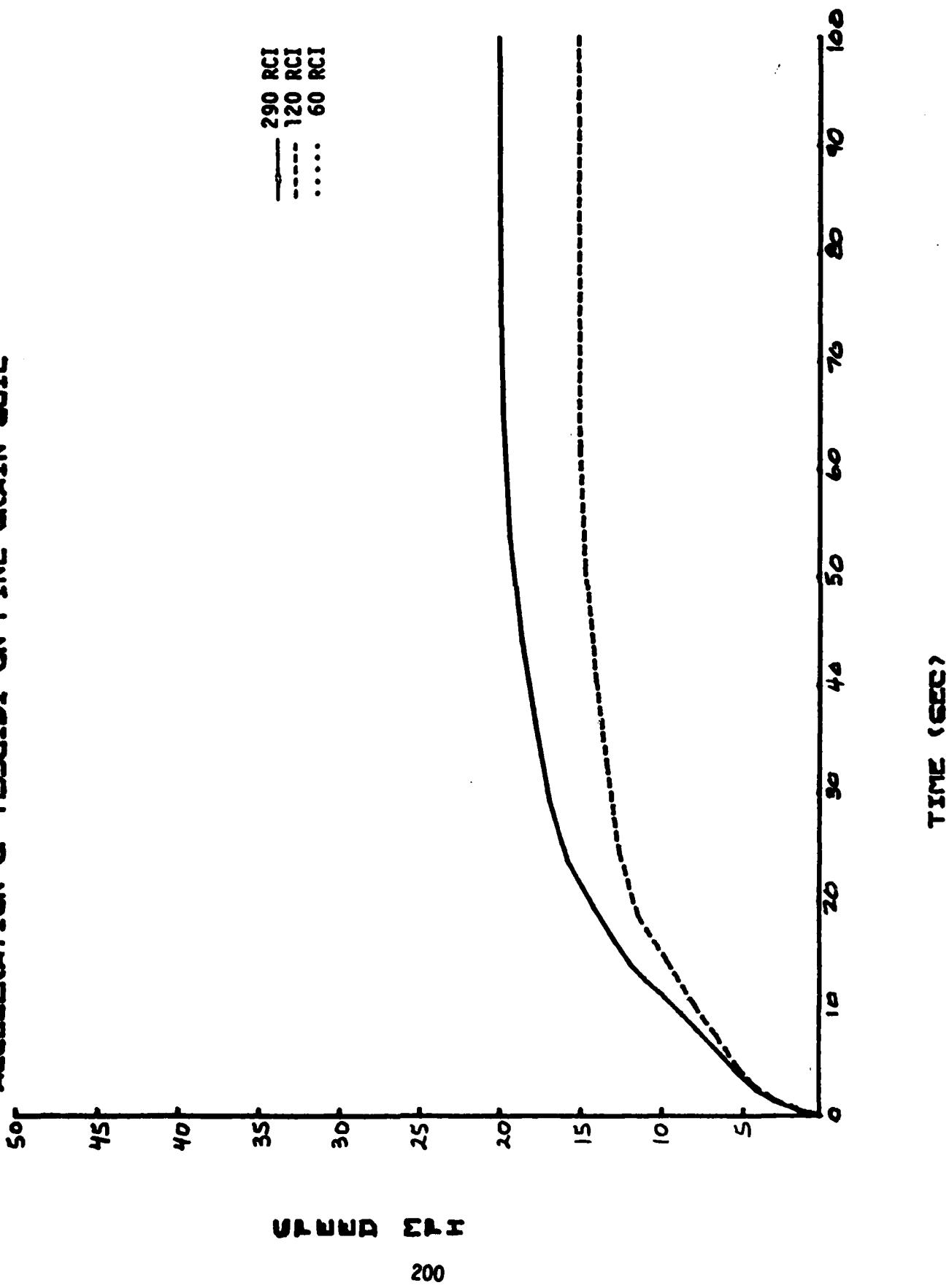




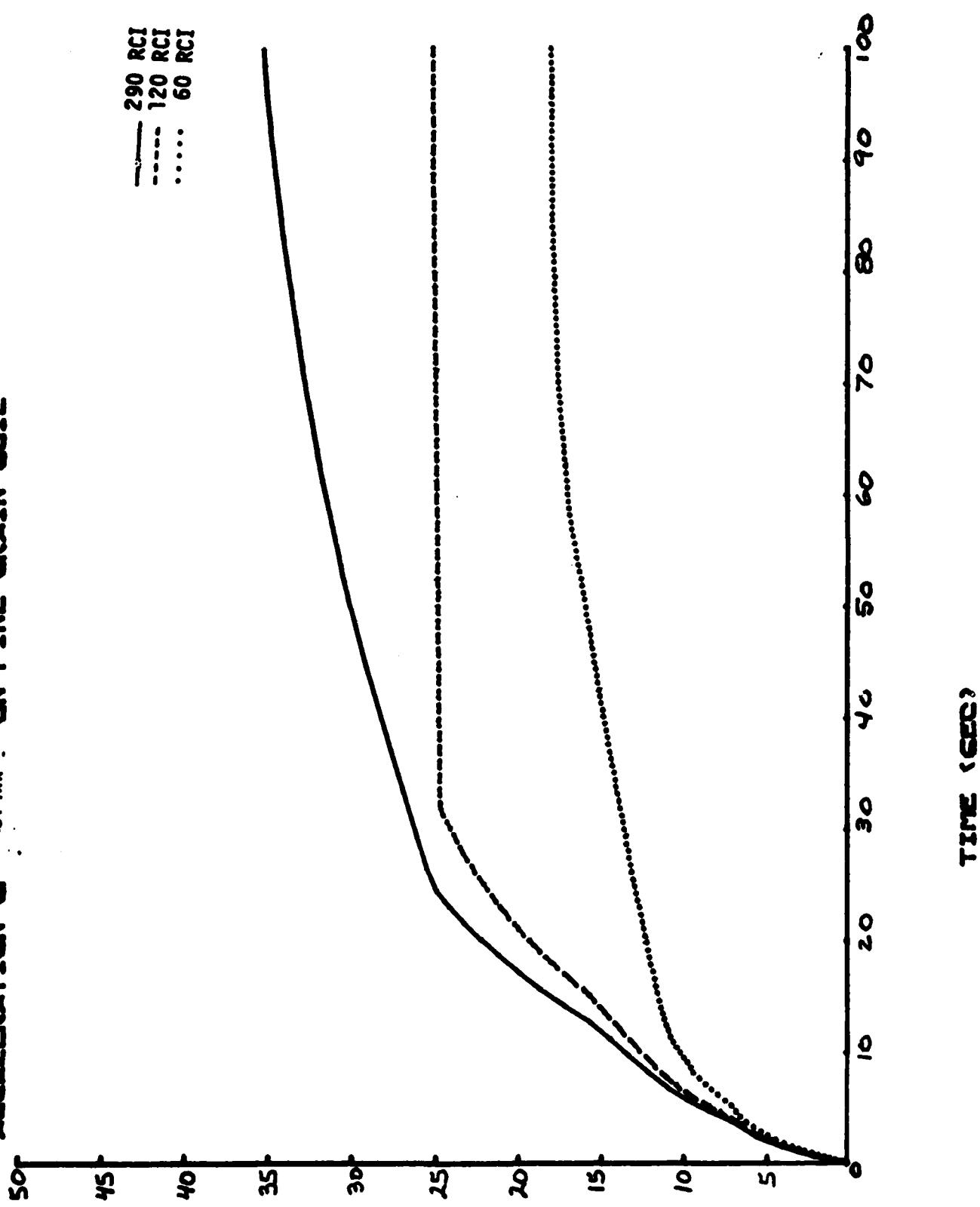
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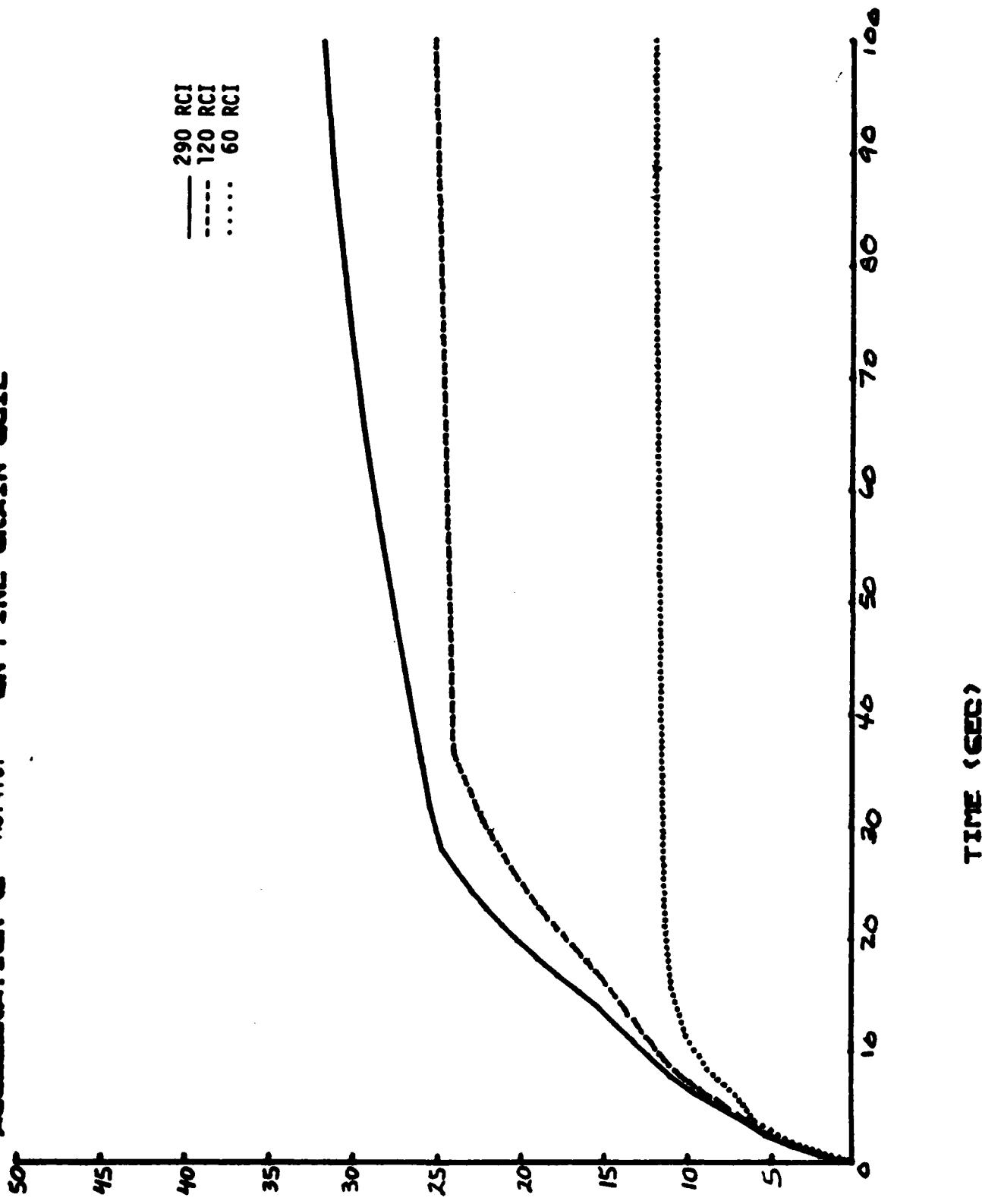
ACCELERATION OF MASSAGE ON FINE GRAIN SOIL



ACCELERATION OF K814W - ON FINE GRAIN SOIL

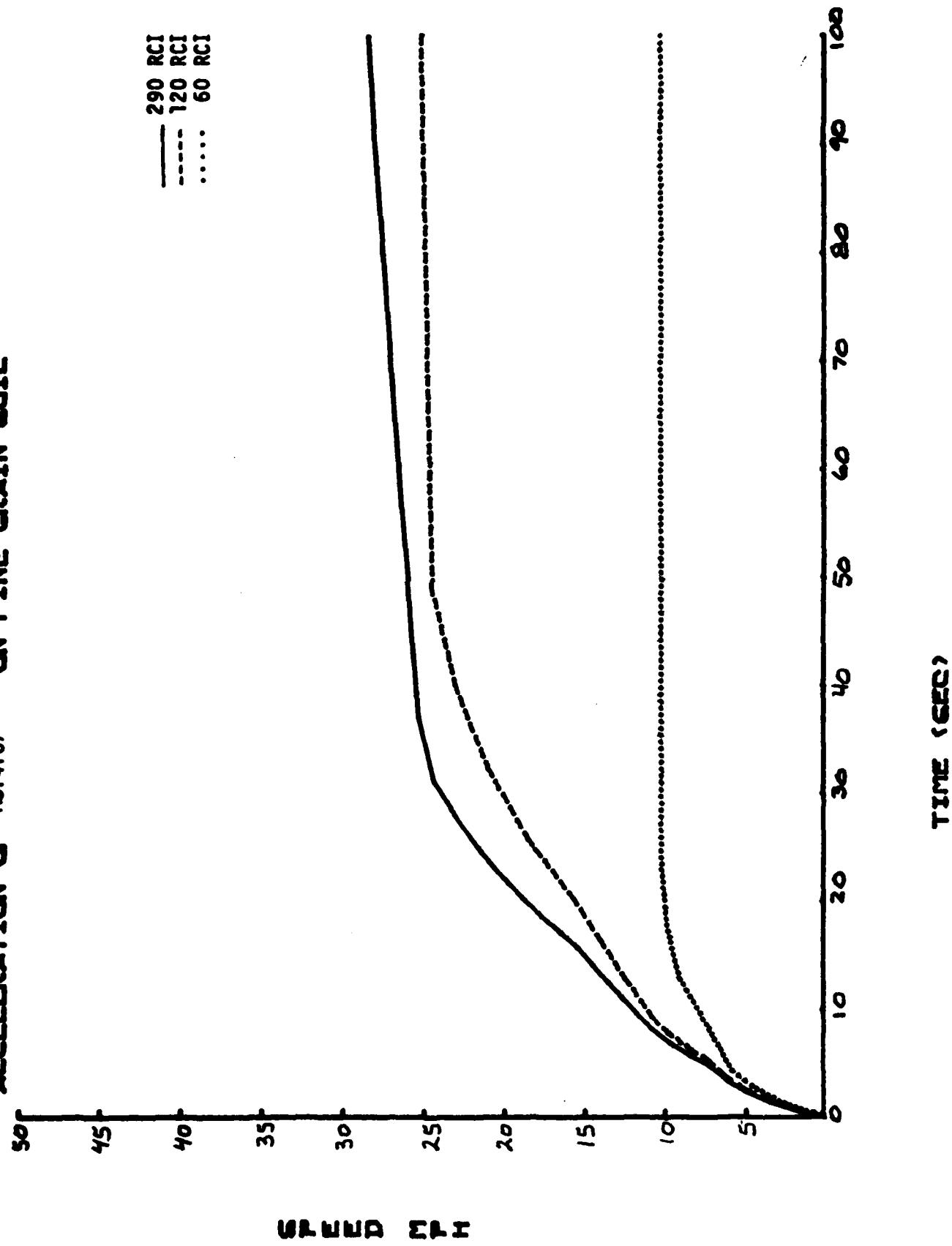


ACCELERATION OF H814101 ON FINE GRAIN SOIL



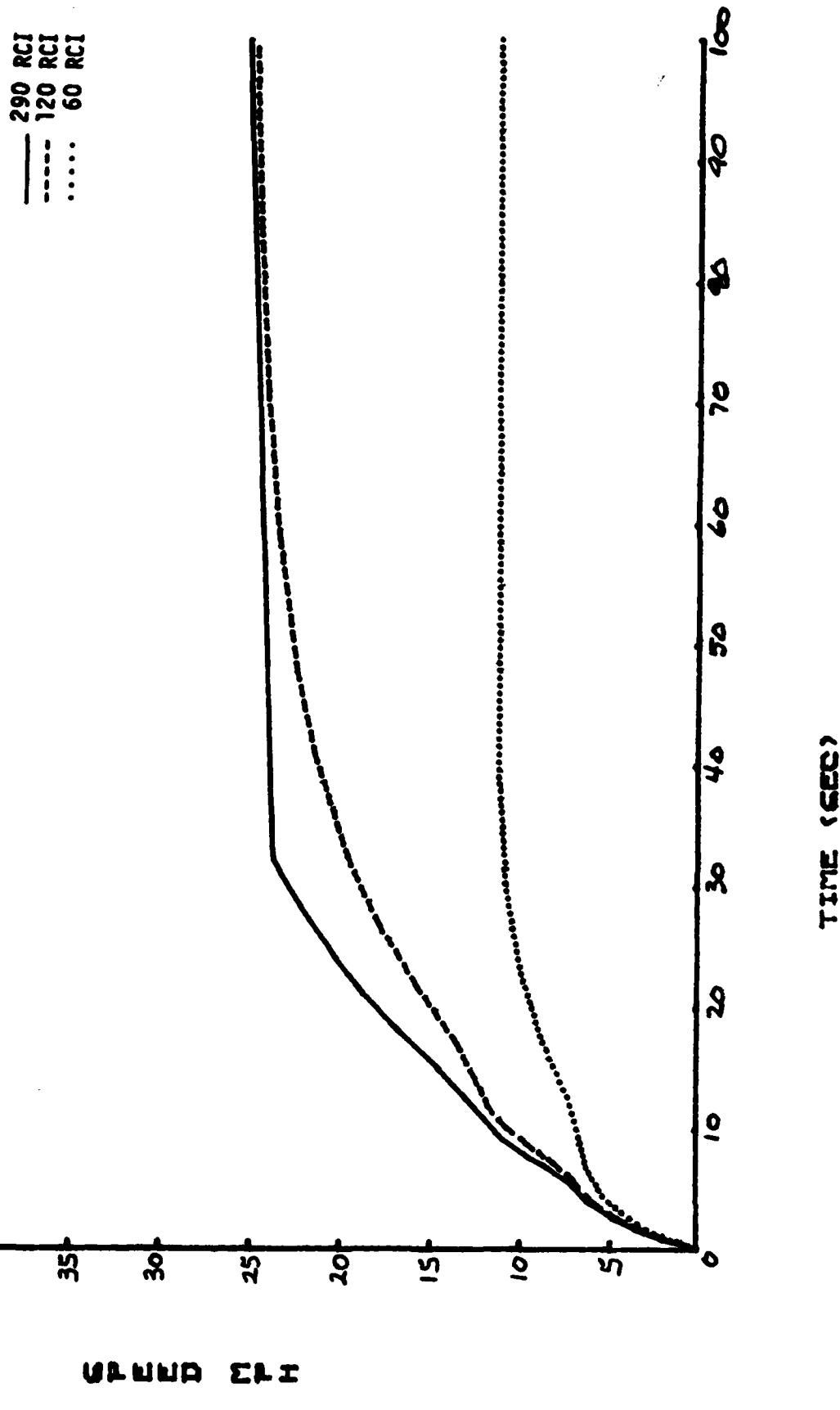
UNLTD E&H

ACCELERATION OF H814107 ON FINE GRAIN SOIL



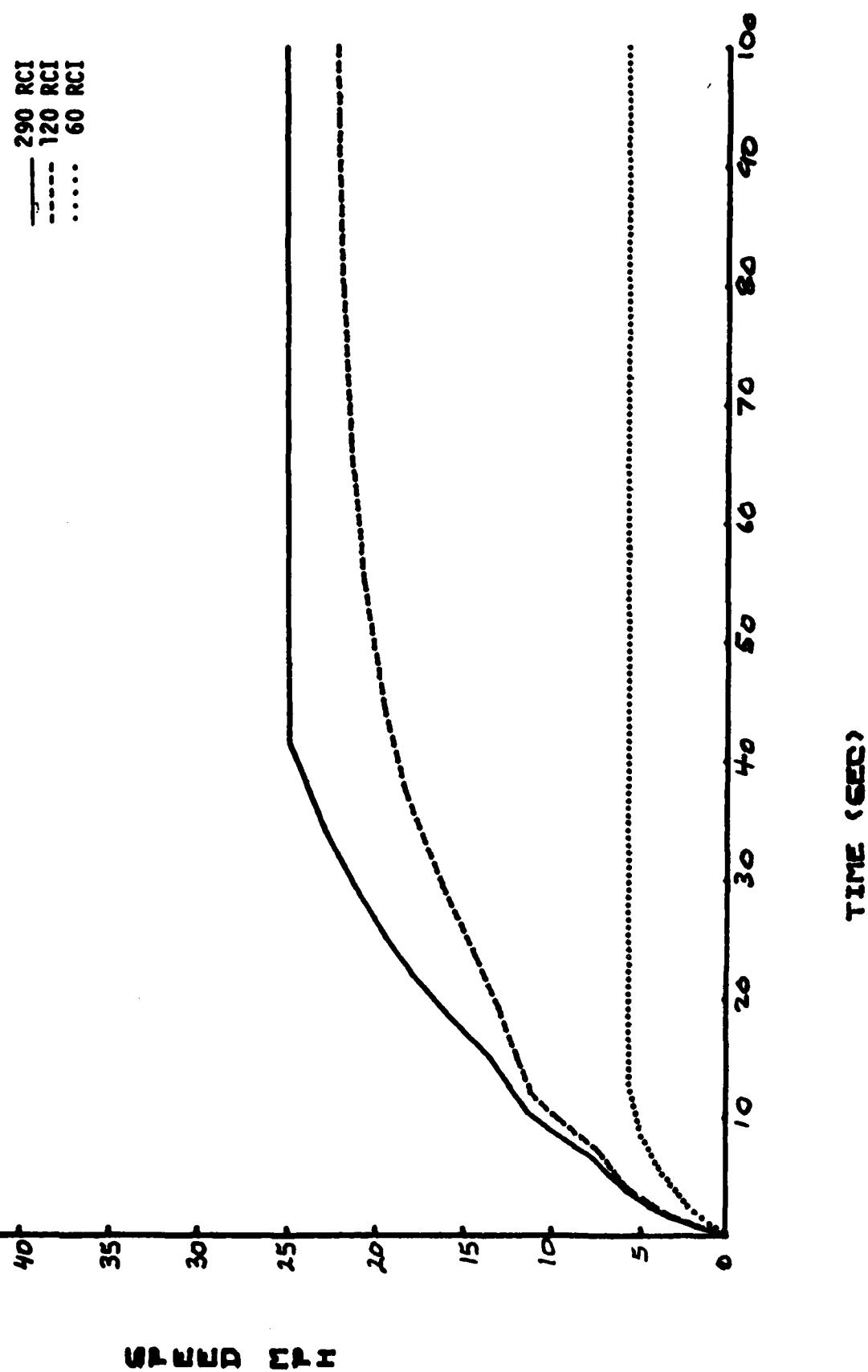
UNPRESSED SPT

ACCELERATION OF 161 GUR ON FINE GRAIN SOIL



SPURRED EARTH

ACCELERATION OF M81616 ON PINE GRAIN SOIL



UNLINED EPH

PREDICTED VEHICLE MOBILITY
CUMULATIVE AVERAGE SPEEDS

VEHICLE	Europe 1 - Dry			Europe 2 - Dry		
	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NOGO	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NOGO
A1 Diesel (car)	15.2	NO-GO	15.8	18.2	NO-GO	11.1
F&V	23.3	NO-GO	12.3	26.2	NO-GO	12.1
HMMWV w/M101 TRL	19.7	NO-GO	13.3	22.0	NO-GO	15.4
HMMWNG	20.3	NO-GO	10.0	22.9	15.0	8.0
HMMWNG w/M101 TRL	20.1	NO-GO	10.7	22.6	NO-GO	10.1
M559	9.0	5.5	6.8	10.0	6.0	6.0
M559 w/M101 TRL	8.9	5.5	7.6	9.7	5.8	7.4
M814	14.3	NO-GO	12.2	16.0	9.7	7.8
M814 w/M101 TRL	13.4	NO-GO	12.4	15.3	9.3	9.3
M814 w/M101 TRL	13.5	NO-GO	12.8	15.0	NO-GO	10.2
M816 WR	19.0	8.4	9.3	15.0	NO-GO	10.3
M816 w/M101 TRL	13.7	8.1	9.7	14.6	NO-GO	11.5

*DENOTES PERCENT OF AREA

AREAL OCCURRENCE OF VEHICLE NOXOS

Europe 1 - Dry

FACTORS CAUSING VEHICLE NOGOs		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES	
VEHICLE	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE
A1 Diesel (Kevay)	0.0	1.6	13.8
FAV	0.0	3.3	8.6
HUMMVEE w/m101 TRL	0.0	4.6	7.3
HUMMING HMMWV G w/m101 TRL	0.0	2.5	7.1
M559 w/m101 TRL	0.0	3.0	7.3
M559 w/m101 TRL	0.0	2.8	2.5
M814	0.0	3.0	3.0
M814 w/m101 TRL	0.0	2.5	2.5
M814 w/m101 TRL	0.0	2.8	9.1
M816 WR	0.0	3.2	9.1
M816 w/m101 TRL	0.0	2.6	5.4
M816 w/m101 TRL	0.0	2.9	5.4

AREAL OCCURRENCE OF FACTORS LIMITING VEHICLE SPEEDS

Europel - Dry

FACTORS LIMITING VEHICLE SPEEDS

VEHICLE	RIDE	FACTORS LIMITING VEHICLE SPEEDS				OBSTACLE INTERFERENCE
		SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION	ALL RESIST FORCES	
Al Diesel	18.2	1.9	18.4	15.0	1.0	29.7
FAY	10.8	0.5	31.3	14.6	0.5	30.1
HAWAII TRAIL	16.9	4.2	19.7	21.8	4.3	20.2
HMMWV	18.0	3.5	22.0	21.9	2.7	21.9
HMMWV TRAIL	17.8	4.0	20.9	21.8	3.4	21.6
M559	35.2	6.4	0.8	15.5	11.9	23.1
M559 TRAIL	34.3	6.7	0.8	15.3	12.6	22.7
M814	27.0	6.9	9.4	15.8	9.4	19.4
M814 TRAIL	25.8	7.2	9.2	15.4	11.0	19.0
M814 TRAIL	24.6	7.9	8.8	16.2	11.1	18.7
M816 MR TRAIL	24.0	11.4	11.3	15.4	10.0	18.7
M816 MR TRAIL	23.5	10.2	11.0	15.5	11.5	18.5

AREAL OCCURRENCE OF VEHICLE TRAILS

Europe 2 - Dry

VEHICLE	FACTORS CAUSING VEHICLE NOSES		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES
	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	
All Diesel Guard	0.0	2.4	8.4
FAV	0.0	7.8	3.4
HMMWV w/m101 TRL	0.0	11.9	3.1
HMMWV HMMWV w/m101 TRL	0.0	4.6	2.8
HMMWV HMMWV w/m101 TRL	0.0	6.7	2.9
M559	0.0	4.7	0.8
M559 w/m101 TRL	0.0	5.8	1.1
M814	0.0	4.6	2.8
M814 w/m101 TRL	0.0	6.0	2.8
M814 w/m101 TRL	0.0	7.0	2.8
M816 WR	0.0	4.7	2.2
M816 w/m101 TRL	0.0	6.4	2.2

**AREAL OCCURRENCE OF FACTORS LIMITING
VEHICLE SPEEDS**

Europe 2 - Dry
FACTORS LIMITING VEHICLE SPEEDS

VEHICLE	RIDE	SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION	ALL RESIST FORCES	ACCEL & DECCEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
(Crew)							
Al Dose 1	18.1	1.0	24.6	14.2	3.0	28.0	-
PAV	7.1	0.2	40.3	12.8	1.5	26.0	-
HMMWV	11.4	6.3	26.1	12.8	8.4	19.5	-
M1/M101 TRL	12.7	5.5	29.4	13.5	7.6	21.2	-
M559	28.1	11.1	3.2	15.2	15.7	20.7	-
M559	27.2	11.1	3.0	14.9	16.4	19.9	-
MBH 4	21.6	12.5	15.4	12.6	12.5	17.6	-
MBH 4	20.4	12.7	14.6	12.3	13.5	17.1	-
MBH 4	19.2	12.4	13.6	12.5	15.3	16.7	-
MBH WR	19.3	17.0	14.3	10.8	11.0	17.4	-
MBH WR	18.9	15.7	13.3	11.5	12.7	16.9	-

PREDICTED VEHICLE MOBILITY CUMULATIVE AVERAGE SPEEDS

VEHICLE	Europe 1 - Wet		Europe 2 - Wet		PERCENT* NOGO	
	V ₅₀ MPH	V ₉₀ MPH	V ₅₀ MPH	V ₉₀ MPH		
Al Diesel (car)	12.1	NO-GO	24.3	14.1	NO-GO	32.0
FAV	15.9	NO-GO	28.3	18.3	NO-GO	35.7
HMMWV w/M101 TRL	15.4	NO-GO	28.4	17.3	NO-GO	34.0
HMMWV w/Magle TRL	16.3	NO-GO	18.3	19.1	NO-GO	26.2
M559	16.1	NO-GO	22.5	18.6	NO-GO	28.3
M559 w/Magle TRL	4.6	NO-GO	48.6	NO-GO	NO-GO	71.9
M814	NO-GO	NO-GO	51.4	NO-GO	NO-GO	73.8
M814 w/Magle TRL	9.6	NO-GO	29.1	8.0	NO-GO	42.3
M814 w/Magle TRL	8.9	NO-GO	39.4	NO-GO	NO-GO	55.8
M816 WR	8.2	NO-GO	44.8	NO-GO	NO-GO	62.2
M816 WR w/Magle TRL	8.7	NO-GO	42.6	NO-GO	NO-GO	64.9
M816 w/Magle TRL	6.5	NO-GO	48.8	NO-GO	NO-GO	71.0

*DENOTES PERCENT OF AREA

MEAN OCCURRENCE OF VEHICLE NOSES

Europe 1 - Wet

VEHICLE	SURFACE STRENGTH LESS THAN VCI ₁	FACTORS CAUSING VEHICLE NOSES		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES
		AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE	
A1 Diesel (crew)	0.1	9.8	13.6	0.8
FAV	0.1	16.7	8.6	2.9
HMMWV w/mot TRL	0.1	19.4	7.1	1.8
HMMWV HMMWV G w/mot TRL	0.1	10.1	6.9	1.2
HMMWV HMMWV G w/mot TRL	0.1	12.7	7.1	2.6
M559	0.1	45.8	2.0	0.7
M559 w/mot TRL	0.1	47.6	2.0	1.7
M814	0.1	19.9	8.3	0.8
M814 w/mot TRL	0.1	30.5	8.0	0.8
M814 w/mot TRL	0.1	35.8	7.8	1.1
M816 WR	0.1	38.3	3.4	0.8
M816 w/mot TRL	0.1	45.2	3.3	0.3

AREAL OCCURRENCE OF FACTORS LIMITING VEHICLE SPEEDS

Europe 1 - Wet

FACTORS LIMITING VEHICLE SPEEDS

FACTORS LIMITING VEHICLE SPEEDS						
VEHICLE	RIDE	SOIL & SLOPE RESIST	MANEUVERING IN VEGETATION	ALL RESIST FORCES	ACCEL & DECEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
Al Diesel	15.2	1.3	17.7	12.7	2.4	26.4
FAY	4.2	0.1	32.1	11.2	0.3	23.8
HUMMING W/MID1 TRL	10.0	1.8	21.3	17.5	6.1	15.0
HMM WNG W/MID1 TRL	12.8	1.2	25.2	20.8	3.6	18.0
HMM WVG W/MID1 TRL	11.2	1.5	29.0	19.6	4.3	17.1
M5579	10.1	7.7	0.9	6.7	16.0	10.1
M559 W/MID1 TRL	9.5	7.2	0.8	6.2	15.5	9.4
M8M	10.5	6.6	9.4	13.1	18.2	13.0
M814 W/MID1 TRL	8.7	6.5	8.1	10.0	15.3	11.9
M814 W/MID1 TRL	7.2	6.9	7.1	9.4	14.2	10.3
M8L W.R.	7.9	7.8	8.6	7.2	14.5	11.3
M8L W.R. W/MID1 TRL	6.3	10.2	6.9	6.3	13.4	8.1

AREAL OCCURRENCE OF VEHICLE NOSES

Europe 2 - We +

FACTORS CAUSING VEHICLE NOGOS

FACTORS CAUSING VEHICLE NOGOs				
VEHICLE	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE	AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES
A1 Diesel (crew)	0.1	22.8	8.3	0.8
FAV	0.1	29.6	3.4	2.6
HMMWV w/M101 TRL	0.1	30.0	3.0	0.9
HMMWV G	0.1	23.0	2.6	0.5
HMMWV G w/M916 TRL	0.1	24.9	2.7	0.6
M559	0.1	71.1	0.5	0.2
M559 w/M101 TRL	0.1	72.4	0.7	0.6
M814	0.1	38.1	2.2	1.9
M814 w/M101 TRL	0.1	52.4	2.0	1.3
M814 w/M101 TRL	0.1	58.9	2.0	1.2
M816 WR	0.1	63.3	1.1	0.4
M816 w/M101 TRL	0.1	69.5	1.1	0.3

AREAL OCCURRENCE OF FACTORS LIMITING VEHICLE SPEEDS

FACTORS LIMITING VEHICLE SPEEDS

FACTORS LIMITING VEHICLE SPEEDS							
VEHICLE (TEST)	RIDE	SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION	ALL RESIST FORCES	ACCEL & DECEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
Al Diesel	10.6	0.7	18.4	9.9	8.0	20.4	-
FAV	2.1	0.0	35.9	8.4	0.3	17.8	-
HMMWV w/KNIFE TRL	4.7	1.8	24.7	9.4	11.4	14.0	-
HMMWV w/MAK6 TRL	6.5	0.2	31.6	11.5	7.9	16.2	-
HMMWV w/MAK6 TRL	6.1	0.9	29.4	11.3	8.7	15.4	-
M559	3.6	8.8	0.8	1.7	8.1	5.3	-
M559	3.2	9.0	0.8	1.6	7.0	4.8	-
MBH	5.9	9.6	7.4	5.7	21.1	8.1	-
MBH	5.1	9.2	5.6	3.4	14.3	6.7	-
MBH	4.2	8.2	4.8	2.5	12.5	5.6	-
MBH WR	4.0	9.3	4.3	2.5	9.3	5.7	-
MBH WR Vehicle TRL	3.2	9.1	3.5	1.3	7.4	4.6	-

PREDICTED VEHICLE MOBILITY
CUMULATIVE AVERAGE SPEEDS

VEHICLE	Europe 1 - Snow			Europe 2 - Snow		
	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NO-GO	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NO-GO
A1 Diesel (gas)	16.2	NO-GO	29.6	15.6	NO-GO	37.2
FAV	NO-GO	NO-GO	52.0	NO-GO	NO-GO	59.9
HMMWV w/mid TRL	NO-GO	NO-GO	50.3	NO-GO	NO-GO	59.6
HMMWV	18.6	NO-GO	25.2	18.5	NO-GO	35.5
HMMWV w/mobile TRL	16.9	NO-GO	32.4	16.3	NO-GO	43.7
M559	4.4	NO-GO	23.0	4.4	NO-GO	34.3
M559 w/mobile TRL	4.1	NO-GO	26.3	4.1	NO-GO	38.2
M814	7.2	NO-GO	24.2	7.3	NO-GO	35.6
M814 w/mobile TRL	6.6	NO-GO	28.1	6.6	NO-GO	41.6
M814 w/mobile TRL	6.1	NO-GO	32.8	6.1	NO-GO	44.4
M816 WR	6.1	NO-GO	23.3	6.1	NO-GO	34.9
M816 w/mobile TRL	5.8	NO-GO	25.8	5.9	NO-GO	38.5

*DENOTES PERCENT OF AREA

AREAL OCCURRENCE OF VEHICLE NOISES

Europe I - Snow

FACTORS CAUSING VEHICLE NOGOs		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES	
VEHICLE	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE
All Diesel (curv)	0.0	16.9	11.7
FAV.	0.0	39.8	8.6
HMMWV w/M101 TRL	0.0	40.6	7.1
HMMWV w/M916 TRL	0.0	13.7	7.0
M559	0.0	22.6	7.0
M559 w/M101 TRL	0.0	19.0	2.5
M814	0.0	21.1	2.9
M814 w/M101 TRL	0.0	18.3	5.1
M814 w/M916 TRL	0.0	22.5	5.1
M816 WR	0.0	26.3	5.1
M816 w/M916 TRL	0.0	18.7	3.8
		21.0	3.9
			0.9

AREAL OCCURRENCE OF FACTORS LIMITING
VEHICLE SPEEDS

Europe 1 - Snow
FACTORS LIMITING VEHICLE SPEEDS

VEHICLE	RIDE	FACTORS LIMITING VEHICLE SPEEDS			ACCEL & DECEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
		VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION	ALL RESIST FORCES		
Couev	5.4	7.1	10.3	10.1	15.3	22.3
Al-Dress	1.2	2.3	18.1	6.2	6.2	14.1
HMMWV w/MOLTR	0.2	5.3	5.2	9.6	21.4	8.1
HMMWV w/MOLTR	1.3	6.3	12.6	15.8	23.5	15.4
HMMWV w/MOLTR	0.6	6.4	8.2	13.7	25.3	13.3
M559	1.6	12.8	0.2	13.7	38.1	10.7
M559 w/MOLTR	1.1	12.0	0.1	13.5	37.6	9.4
M814	1.2	18.7	1.4	14.0	31.8	8.6
M814 w/MOLTR	0.6	15.8	0.6	11.3	36.3	7.3
M814 w/MOLTR	0.1	22.2	0.4	12.0	26.0	6.6
M816 MR	1.0	30.3	0.8	12.8	24.0	7.9
M816 w/MOLTR	0.6	27.6	0.5	12.4	25.4	7.6

AREAL OCCURRENCE OF VEHICLE NOBOS

Figure 2 - Snow

VEHICLE	FACTORS CAUSING VEHICLE NOBOS		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES
	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	
A1 Diesel (cured)	0.0	30.6	5.8
FAV	0.0	51.0	3.4
HMMWV w/M101 TRL	0.0	51.0	3.0
HMMWV	0.0	30.5	2.7
HMMWV w/M916 TRL	0.0	39.0	2.8
M559	0.0	32.6	0.8
M559 w/M101 TRL	0.0	36.3	0.9
M814	0.0	32.2	2.5
M814 w/M101 TRL	0.0	38.3	2.5
M814 w/M916 TRL	0.0	40.4	2.5
M916 WR	0.0	32.5	1.7
M916 w/M916 TRL	0.0	36.2	1.7

AREAL OCCURRENCE OF FACTORS LIMITING
VEHICLE SPEEDS

Figure 2 - Snow

VEHICLE (Crew)	RIDE	FACTORS LIMITING VEHICLE SPEEDS			ACCEL & DECEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
		SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION		
M11/M101 TRL	1.2	9.0	8.4	7.2	17.9	19.0
FAY	0.1	2.9	17.6	3.7	5.7	10.2
HMMWV	0.0	8.0	3.0	3.9	18.6	55.8
HMMWV	0.4	8.6	11.6	8.2	23.2	12.6
HMMWV	0.3	8.5	7.3	7.2	22.5	10.6
M559	1.8	14.1	0.6	8.1	34.4	6.7
M559	0.9	14.2	0.4	7.7	32.9	5.8
M814	1.0	19.4	1.8	8.3	28.6	55.3
M814	0.5	17.0	0.4	5.2	31.6	3.7
M814	0.3	20.6	0.2	6.3	25.1	3.1
M816 MR	0.9	32.1	1.3	7.1	19.2	4.5
M816 MR	0.4	27.2	0.8	6.9	22.0	4.2

PREDICTED VEHICLE MOBILITY
CUMULATIVE AVERAGE SPEEDS

VEHICLE	Midwest 1 - D ₁ , ₄			Mid- East 1 - Wet		
	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NO-GO	V ₅₀ MPH	V ₉₀ MPH	PERCENT* NO-GO
Al Dues (curr)	8.7	No-Go	32.9	6.8	No-Go	42.5
FAV	23.7	No-Go	29.8	No-Go	No-Go	50.5
HMMWV _G w/mid ₁ TRL	15.7	No-Go	34.0	No-Go	No-Go	52.8
HMMWV _G w/mid ₁ TRL	16.8	No-Go	26.7	14.8	No-Go	38.8
M559	6.0	No-Go	29.0	12.5	No-Go	43.9
M559 w/mid ₁ TRL	5.8	No-Go	20.9	4.0	No-Go	43.1
MB14	10.0	No-Go	22.8	3.7	No-Go	47.3
MB14 w/mid ₁ TRL	9.6	No-Go	28.1	No-Go	No-Go	67.9
MB16 WR	9.2	No-Go	29.8	No-Go	No-Go	70.6
MB16 WR w/mid ₁ TRL	9.1	No-Go	30.6	No-Go	No-Go	73.1
MB16	8.9	No-Go	26.6	6.5	No-Go	40.5
MB16 w/mid ₁ TRL	8.6	No-Go	28.6	5.2	No-Go	47.1

*DENOTES PERCENT OF AREA

MEAN OCCURRENCE OF VEHICLE MODES

MID-EAST 1 - DRY

VEHICLE	FACTORS CAUSING VEHICLE NOGOs		
	SURFACE STRENGTH LESS THAN VC1 ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE
A1 Diesel (GUCY)	0.0	0.6	31.6
FAV	0.0	4.1	25.4
HMMWV w/m101 TRL	0.0	7.9	26.0
HMMWV HMMWV G w/m101 TRL	0.0	1.5	25.1
M559	0.0	3.5	25.3
M559 w/m101 TRL	0.0	1.6	18.8
M814	0.0	2.9	19.8
M814 w/m101 TRL	0.0	1.5	26.5
M814 M814 w/m101 TRL	0.0	2.5	26.5
M816 WR	0.0	3.4	26.8
M816 M816 w/m101 TRL	0.0	1.5	22.4
		2.7	2.7
		23.3	2.6

AREAL OCCURRENCE OF FACTORS LIMITING
VEHICLE SPEEDS

M.J - Est. 1 - Dry
FACTORS LIMITING VEHICLE SPEEDS

VEHICLE (acres)	RIDE	SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	MANEUVERING IN VEGETATION	ALL RESIST FORCES	ACCEL & DECEL BETWEEN OBSTACLES	OBSTACLE INTERFERENCE
A1 Diesel	38.4	1.3	0.1	17.7	0.4	9.6	-
PAV	37.1	2.2	4.3	13.3	0.9	13.3	-
HMMWV w/M101 TBL	32.2	5.6	8.0	9.7	2.6	8.0	-
HMMWV w/M101 TBL	38.2	5.2	8.8	9.6	1.9	9.6	-
HMMWV w/M101 TBL	36.1	5.8	8.3	9.4	2.0	9.3	-
M559	39.8	8.3	0.0	3.7	6.5	20.9	-
M559	38.6	8.1	0.0	3.7	6.4	20.5	-
M814	34.2	8.5	6.6	6.1	5.2	11.3	-
M814 w/M101 TBL	32.7	8.4	6.5	6.5	4.8	11.3	-
M814 w/M101 TBL	30.9	9.8	5.4	7.0	5.3	10.9	-
M814 WR	31.9	10.0	5.7	6.0	6.0	13.9	-
M814 w/M101 TBL	30.2	10.2	4.8	6.2	7.3	12.8	-

MEAL OCCURRENCE OF VEHICLE MIGOS

M.d - East - - West

FACTORS CAUSING VEHICLE NOSES

FACTORS CAUSING VEHICLE NOGOs		AVAIL TRACTION LESS THAN TOTAL RESISTING FORCES		
VEHICLE	SURFACE STRENGTH LESS THAN VCI ₁	AVAIL TRACTION LESS THAN SOIL & SLOPE RESISTANCE	OBSTACLE INTERFERENCE	
All Diesel (crew)	0.0	10.1	31.6	0.8
FAV	0.0	25.7	24.5	0.3
HMMWV w/M101 TRL	0.0	26.3	26.0	0.5
HMMWV w/M916 TRL	0.0	13.5	25.1	0.2
HMMWV w/M916 TRL	0.0	18.0	25.3	0.6
M5579	0.0	24.3	17.4	1.4
M5579 w/M101 TRL	0.0	28.1	17.3	1.9
M814	0.0	38.0	26.5	3.4
M814 w/M101 TRL	0.0	40.9	26.5	3.2
M814 w/M916 TRL	0.0	43.1	26.8	3.2
M816 WR	0.0	15.3	21.6	3.4
M816 w/M916 TRL	0.0	24.4	21.2	1.5

AREAL OCCURRENCE OF FACTORS LIMITING
VEHICLE SPEEDS

Mild East - W. T.

VEHICLE (code)	RIDE	FACTORS LIMITING VEHICLE SPEEDS				OBSTACLE INTERFERENCE
		SOIL & SLOPE RESIST	VISIBILITY IN VEGETATION	ALL RESIST FORCES	ACCEL & DECEL BETWEEN OBSTACLES	
Al Diesel	31.3	1.6	2.4	15.3	0.2	0.6
FAY	21.0	0.7	8.4	2.0	0.1	11.4
HMMWV M1116 TRL	21.0	3.9	5.1	2.9	1.5	8.2
HMMWV G	30.0	3.3	7.1	2.4	2.0	10.2
HMMWV G M1116 TRL	27.4	4.0	5.9	1.9	1.5	9.2
M559	22.0	9.3	0.2	3.5	6.7	19.7
M559 M1116 TRL	19.4	8.1	5.2	3.8	7.3	13.2
M6M	14.0	5.6	1.6	1.6	6.1	3.3
M814 M814 TRL	11.6	6.3	1.3	1.5	6.3	2.5
M814 M1116 TRL	7.2	7.0	0.9	1.3	6.5	2.1
M814 M814 TRL	20.7	12.5	2.8	4.4	7.7	11.9
M814 M814 TRL	17.4	1.7	2.4	4.3	7.5	9.7

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